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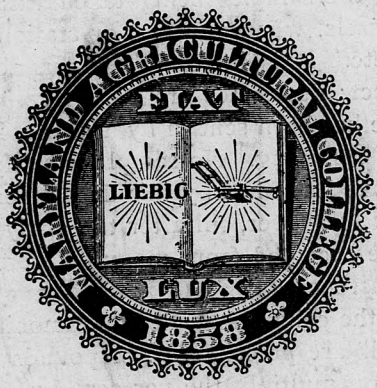
FERTILIZER ANALYSES.

R. W. SILVESTER, - - - - President.

Edited by H. B. McDONNELL, Professor of Chemistry.



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ADDRESS

Chemical Department

Maryland Agricultural College,

COLLEGE PARK, MD.

ANALYSES OF

Fertilizers Sold in Maryland

BY THE CHEMICAL DEPARTMENT OF

THE MARYLAND AGRICULTURAL COLLEGE.

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The tables on the following pages are made up of the results of the analysis of fertilizers made at the College from August, 1908, to January 1909, inclusive.

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit, on vessels, wharves, cars, or stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all the samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer his name appears after the place of sampling. No sample is analyzed unless fully described on blanks furnished by this department. The description is not sent in, however, till after the analysis is reported.

No samples are accepted from manufacturers or their agents under any circumstances.

The figures in the columns headed "Ammonia," "Potash" and "Phosphoric Acid" are percentages, or pounds per hundred. To get pounds per ton multiply the per cent by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential part of the guarantee as stamped on the bags.

The columns headed "No." contain the respective numbers by which the samples are known in the laboratory. In writing to the Chemical Department in regard to any analysis the number should always be given. The samples are numbered consecutively on the books of the office, but are arranged alphabetically for publication, which accounts for the mixing of the numbers.

To get "Total" phosphoric acid add the "Insoluble" to the "Available" phosphoric acid.

The "Comparative Value Found" is calculated from the re-

sults of analysis as found in our laboratory; the "Comparative Value Guaranteed" is calculated from the manufacturers' guaranteed analysis as printed on the bags; in each case using the schedule as given below.

Schedule for Calculating Comparative Values.

In Mixed Fertilizer:	
For Nitrogen, calculated as Ammonia	20 cts. per pound.
For Potash (K_2O), in forms free from muriate	6 cts. per pound.
For Potash (K_2O), as muriate, or Kainit	5 cts. per pound.
For Available Phosphoric Acid	6 cts. per pound.
For Insoluble Phosphoric Acid	2 cts. per pound.
For Insoluble Phosphoric Acid when from Rock	1 ct. per pound.
In Dissolved Rock:	
Available Phosphoric Acid	4½ cts. per pound.
Insoluble Phosphoric Acid	1 ct. per pound.
In Tankage, Fish and Ground Bone:	
For Nitrogen, calculated as Ammonia	15 cts. per pound.
For Phosphoric Acid	3 cts. per pound.

The "Comparative Values" given in the table are not claimed to be the proper prices to be paid for the various fertilizers at the place of sale or use. They will be found to be not far from the prices for which fertilizers may be obtained at Baltimore, for cash. In making comparisons at other points freight from Baltimore should be added.

It should be noted that plant food costs more in low grade or "cheap" fertilizers than it does in high grade goods. Thus a 1-5-1 fertilizer (1 per cent of ammonia, 5 per cent of available phosphoric acid and 1 per cent of potash) will cost more than half as much as a 2-10-2 fertilizer, though it only contains half as much plant food. The demand for "cheap" fertilizer causes low-grade material to be at a premium, even when less efficient and less available than the same amount of actual plant food in the higher grade goods.

Farmers are advised to demand 16 per cent dissolved rock or acid phosphate.

Do not expect to get the 16 per cent goods at the same price paid for the 14 per cent, however. The higher grade will cost about $1 per ton more. The cheapest filler is the soil in the field and the cheapest mixing machine is the harrow.

Low grade mixed fertilizers should be avoided, such as a fertilizer guaranteed to contain ¼ per cent Ammonia, 6 per cent Available Phosphoric acid and 1 per cent of Potash. Such a fertilizer could be made as follows: 50 lbs. Ground Fish, 750 lbs. Dissolved Rock and 40 lbs. Muriate of Potash to the ton; this would necessitate the use of 1160 lbs. of filler in each ton. It would be more economical to buy half a ton of good fertilizer.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18491	American Agricultural Chem. Co. N.Y. (Balto. Md.)	Ammoniated Mixture	Galena (W. B. Ford.
18200	" " "	Big Crop Phosphate	Baltimore .....
18468	" " "	Big Crop Phosphate	Rockville (Geo. Shaw.
18327	" " "	Dead Shot Phosphate	Melrose .....
18201	" " "	Dissolved Animal Bone ...	Baltimore .....
18383	" " "	Excelsior Potash Phosphate	Baltimore .....
18202	" " "	Fine Ground Bone.....	Baltimore .....
18291	" " "	Fish, Bone and Potash....	Laurel .....
18394	" " "	Gem Alkaline Phosphate...	Baltimore .....
18...			
18203	" " "	Pure Ground Bone	Baltimore .....
18469	" " "	Pure Ground Bone	Rockville (Geo. Shaw.
18329	" " "	Royal Alkaline Bone.....	Melrose .....
18204	" " "	Top Notch Phosphate.....	Baltimore .....
18411	" " "	Wheat and Clover Produer	Smithsburg .....
18205	A. A. C. Co. (Canton) Baltimore, Md.	Baker's Diss'lved S.C.Bone	Baltimore .....
18299	" " "	Baker's Fish Guano	Baltimore .....
18358	" " "	Baker's Special Wheat, Corn and Grass Mixture.....	Thurmont .....
18206	" " "	Harrow Brand Crop Grower.	Baltimore .....
18359	" " "	Patron's Bone Mixture....	Bel Air .....
18330	" " "	Resurgam Guano	Union Mills .....
18207	" " "	Soluble Bone and Potash..	Baltimore .....
18300	A. A. C. Co. (Detrick) Baltimore, Md.	Ammoniated Bone Phosphate.	Baltimore .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18491	1.06	1.00	4.74	5.00	1.02	.....	7.87	8.00	$18.83	$18.60
18200	....	....	5.04	5.00	.75	.....	8.38	8.00	12.73	12.20
18468	....	....	4.93	5.00	.20	.....	8.55	8.00	12.67	12.20
18327	.56	.50	2.08	2.00	.72	.....	8.17	8.00	14.41	13.60
18201	2.73	2.50	....	....	2.80	.....	11.55	12.00	25.90	24.40
18383	....	....	5.51	5.00	1.15	.....	7.92	8.00	12.87	12.20
18202	3.45	3.00	....	....	25.34*	22.80*	.....	.....	25.55	22.68
18291	2.12	2.00	2.57	3.00	1.42	.....	7.01	6.00	20.03	18 20
18394	....	....	3.37	3.0	.75	.....	6.04	6.00	8.96	8.40
.....	....	....	....	....	....	.....	.....	.....	.....	.....
18203	4.52	4.00	....	....	22.16*	20.60*	.....	.....	26.86	24.36
18469	4.08	4.00	....	....	19.61*	40.00†	.....	.....	24.01	36.00
18329	....	....	4.09	4.0	.52	.....	10.03	10.00	13.22	13.00
18204	2.18	2.00	4.58	5.0	1.85	.....	8.16	8.00	23.83	22.60
18411	.87	1.00	2.12	2.0	1.62	.....	12.50	12.00	21.25	20.40
18205	....	....	....	....	1.17	.....	14.13	14.00	12.95	12.60
18299	2.02	2.00	2.01	2.00	1.52	....	8.30	8.00	20.66	19.60
18358	1.11	1.00	2.12	2.00	1.50	....	8.97	9.00	17.92	16.80
18206	1.08	1.00	1.26	1.00	1.45	....	8.19	8.00	15.99	14.60
18359	1.86	2.00	2.70	2.50	8.01	....	6.35	5.00	20.96	16.50
18330	1.01	1.00	4.11	4.00	1.12	1.00	8.22	8.00	18.46	18.00
18207	....	....	2.09	2.00	1.20	....	10.21	10.00	11.52	11.00
18300	1.60	1.50	2.19	2.00	1.57	....	9.29	10.00	20.37	18.80

* Total Phosphoric Acid. † Bone Phosphate.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18301	A. A. C. Co. (Detrick) Baltimore, Md.	Bone and Potash 16 x 4 Mixture.	Baltimore .....
18407	" " "	Dissolved S. C. Bone.....	Baltimore .....
18408	" " "	Imperial Compound	Baltimore .....
18208	" " "	Kangaroo Komplete Kompound.	Baltimore .....
18209	" " "	P. & B. Special Fertilizer..	Baltimore .....
18295	" " "	Paragon Ammoniated Bone.Phosphate & Pot'h	Singerly .....
18281	" " "	Quikstep Bone Phosphate..	Lauraville .....
18331	" " "	Royal Crop Grower.....	Mount Airy .....
18210	" " "	Soluble Bone Phosphate & Potash.	Baltimore .....
18302	" " "	Special Mixture	Baltimore .....
18296	" " "	Standard Potash Fertilizer.	Singerly .....
18409	" " "	Victory Alkaline Bone.....	Baltimore .....
18211	A. A. C. Co. (Lazaretto) Baltimore, Md.	Ammoniated Bone Phosphate.	Baltimore .....
18297	" " "	Bone Compound	Providence .....
18212	" " "	Crop Grower	Baltimore .....
18332	" " "	Dissolved Bone Phosphate.	Woodbine .....
18213	" " "	Dissolved Bone & Potash..	Baltimore .....
18214	" " "	Dissolved Bone & Potash..	Baltimore .....
18395	" " "	Dissolved Bone & Potash..	Baltimore .....
18412	" " "	Excelsior A. A. A.	Hagerstown .....
18215	" " "	Forsythe & Linthicum Mixture.	Baltimore .....
18311	" " "	High Grade Dissolved Bone Phosphate and Potash.	Baltimore .....
18304	" " "	High Grade Dissolved Bone and Potash.	Baltimore .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18301	.·..	....	2.01	2.00	.90	.....	11.02	11.00	$12.11	$11.90
18407	.·..	....	....	....	.67	.....	14.27	14.00	12.97	12.60
18408	1·01	1.00	2.13	2.00	1.75	.....	8.44	8.00	17.00	15.60
18208	2·37	2.00	3.01	3.00	1.35	.....	8.09	8.00	22.74	20.60
18209	.·..	....	3.06	3.00	.62	.....	11.84	12.00	13.84	13.80
18295	·97†	1.00	1.42	1.00	1.20	.....	7.25	7.00	14.48	13.40
18281	3·02	3.00	4.43	4.00	1.60	.....	9.24	8.00	28.24	25.60
18331	2·12	2.00	2.14	2.00	1.77	.....	8.27	8.00	21.25	19.60
18210	....	....	1.92	2.00	.48	.....	10.72	10.00	11.67	11.00
18302	1.19	1.00	1.21	1.00	1.42	.....	8.08	8.00	16.24	14.60
18296	1.54	1.50	5.39	5.00	1.15	.....	6.28	6.00	19.55	18.20
18409	....	·...	5.56	5.00	.90	.....	12.52	12.00	17.01	15.80
18211	1.23	1.00	2.19	2.00	1.17	.....	8.09	8.00	17.29	15.60
18297	1.31	1.25	2.67	3.00	.85	.....	8.89	9.00	18.92	18.80
18212	2.10	2.00	2.03	2.00	2.17	.....	8.14	8.00	21.07	19.60
18332	....	....	....	....	.67	.....	14.23	14.00	12.94	12.60
18213	....	....	2.11	2.00	.62	....	8.51	8.00	9.89	9.20
18214	....	....	2.08	2.00	.42	....	10.37	10.00	11.49	11.00
18395	....	....	2.14	2.00	.87	....	11.32	11.00	12.50	11.90
18412	1.08	1.00	1.10	1.00	1.32	....	7.30	7.00	14.71	13.40
18215	2.30	2.25	4.05	4.00	2.97	4.50	10.36	9.00	26.87	25.60
18311	....	....	3.06	3.00	.70	....	12.18	12.00	14.16	13.80
18304	....	....	5.17	5.00	.60	....	10.40	10.00	14.65	14.00

† Contains Nitrate.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18467	A. A. C. Co. (Lazaretto) Baltimore, Md.	High Grade Dissolved Bone and Potash.	Rockville (Geo. Shaw.)
18415	" " "	High Grade Dissolved Bone and Potash.	Oxford .....
18298	" " "	Retriever Animal Bone Fertilizer.	Providence .....
18435	" " "	Retriever Animal Bone Fertilizer.	St. Inigoes (Frank R. Carroll.)
18216	" " "	Special Wheat and Grass Fertilizer.	Baltimore .....
18217	" " "	Wheat, Corn and Grass Grower..	Baltimore .....
18384	A. A. C. Co. (Maryland) Baltimore, Md.	Alkaline Bone	Baltimore .....
18218	" " "	Magic Guano	Baltimore .....
18396	" " "	Tornado Fertilizer	Baltimore .....
18312	A. A. C. Co. (Nickerson) Easton, Md.	Alkaline Bone and Potash.	Baltimore .....
18219	" " "	Dissolved Bone and Potash	Baltimore .....
18313	" " "	English Mixture	Baltimore .....
18314	" " "	Nickerson Mixture	Baltimore .....
18385	" " "	Tomato Fertilizer	Baltimore .....
18328	A. A. C. Co. (North Western) Baltimore, Md.	Grass and Grain Mixture..	Lineboro .....
18220	A. A. C. Co. (Reese) Baltimore, Md.	Dissolved Phosphate of Lime.	Baltimore .....
18420	" " "	Special Crown Phosphate and Potash.	Baltimore .....
18386	A. A. C. Co. (Susquehanna) Baltimore, Md	Ammoniated Bone Phosphate.	Baltimore .....
18323	" " "	Crop Grower.	Harmony Grove
18315	" " "	Grain and Grass Producer.	Baltimore .....
18221	" " "	High Grade Bone and Potash.	Baltimore .....
18353	" " "	Pure Bone Phosphate.	Blue Ball .....
18324	" " "	Soluble Bone and Potash..	Harmony Grove..
18222	" " "	Superior Rock Phosphate..	Baltimore .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18467	....	....	4.93	5.00	.43	....	10.09	10.00	$14.10	$14.00
18415	....	....	5.25	5.00	.85	....	11.89	12.00	16.12	15.80
18298	2.30	2.25	3.87	4.00	2.47	4.50	10.82	9.00	27.04	25.60
18435	2.49	2.25	4.34	4.00	3.25	4.50	10.20	9.00	27.84	25.60
18216	1.33	1.00	4.03	4.00	1.55	....	8.01	8.00	19.58	17.60
18217	.85	.50	2.09	2.00	.85	....	8.06	8.00	15.50	13.60
18384	....	....	3.12	3.00	.70	....	12.45	12.00	14.47	13.80
18218	1.14	1.00	1.96	2.00	1.37	....	9.01	9.00	17.88	16.80
18396	....	....	5.28	5.00	1.00	.....	11.96	12.00	16.24	15.80
18312	....	....	2.02	2.00	.87	.....	10.41	10.00	11.56	11.00
18219	....	....	4.84	5.00	1.12	.....	12.21	12.00	16.05	15.80
18313	1.02	1.00	2.05	2.00	1.90	.....	8.46	8.00	17.04	15.60
18314	.58	.50	2.10	2.00	1.77	.....	7.95	8.00	14.67	13.60
18385	1.04	1.00	4.18	4.00	2.13	.....	8.02	8.00	18.81	17.60
18328	1.02	1.00	1.31	1.00	.95	.....	8.64	8.00	16.14	14.60
18220	....	....	....	....	.73	.....	14.01	14.00	12.77	12.60
18420	....	....	1.93	2.00	.92	1.00	12.66	12.00	13.50	13.00
18386	2.18	2.00	2.03	2.00	1.97	....	7.91	8.00	21.03	19.60
18323	1.01	1.00	1.10	1.00	.90	....	7.58	7.00	14.60	13.40
18315	....	....	3.22	3.00	.60	....	12.26	12.00	14.37	13.80
18221	....	....	4.48	5.00	1.35	....	12.55	12.00	16.05	15.80
18353	2.15	2.00	2.10	2.00	5.15	2.00	9.42	9.00	24.06	21.60
18324	....	....	2.14	2.00	.90	....	9.84	10.00	11.18	11.00
18222	....	....	....	....	1.25	....	14.20	14.00	13 03	12.60

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18325	A. A. C. Co. (Susquehanna), Baltimore, Md.	X. X. V. Phosphate.....	Harmony Grove..
18397	A. A. C. Co. (Tygert Allen) Philadelphia, Pa.	Standard Bone Phosphate.	Baltimore .....
18223	A. A. C. Co. (Wheeler) Rutland, Vt.	Bone and Potash.....	Baltimore .....
18224	" " "	Electrical Dissolved Bone..	Baltimore .....
18225	" " "	General Crop Grower.....	Baltimore .....
18226	" " "	High Grade Tomato Fertilizer.	Baltimore .....
18227	" " "	Potato Manure	Baltimore .....
18228	" " "	Royal Wheat Grower.....	Baltimore .....
18229	" " "	Wheat and Clover Fertilizer.	Baltimore .....
18230	A. A. C. Co. (Zell) Baltimore, Md.	Ammoniated Bone Super-Phosphate.	Baltimore .....
18382	" " "	Dissolved Bone Phosphate.	Owings Mills ....
18333	" " "	Economizer	Taneytown .....
18316	" " "	Electric Phosphate	Baltimore .....
18231	" " "	Hustler Phosphate	Baltimore .....
18232	" " "	Little Giant	Baltimore .....
18270	Acme Guano Co., Baltimore, Md.	Harvest King	Gaithersburg ....
18282	Armour Fertilizer Works, Baltimore, Md.	Acidulated Bone Meal	Glen Morris .....
18398	" " "	Ammoniated Bone with Potash.	Baltimore .....
18233	" " "	Bone Meal	Baltimore .....
18399	" " "	Cereal Phosphate	Baltimore .....
18305	" " "	Claude Parks Fearless.....	Baltimore .....
18405	" " "	Downe's Special Mixture..	Denton .....
18234	" " "	Fruit and Root Crop Special.	Baltimore .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18325	1.03	1.00	1.20	1.00	1.15	.....	8.11	8.00	$15.71	$14.60
18397	1.93	2.00	2.11	2.00	2.10	.....	8.05	8.00	20.33	19.60
18223	....	....	3.14	3.00	.62	.....	11.86	12.00	13.93	13.80
18224	....	....	....	....	.62	.....	14.14	14.00	12.85	12.60
18225	2.22	2.00	2.01	2.00	1.67	.....	8.15	8.00	21.34	19.60
18226	1.08	1.00	1.11	1.00	1.10	.....	7.48	7.00	14.85	13.40
18227	2.56	2.50	3.02	3.00	2.10	.....	8.23	8.00	23.93	22.60
18228	1.25	1.00	2.01	2.00	1.32	.....	8.23	8.00	17.36	15.60
18229	....	....	2.05	2.00	.50	.....	9.64	10.00	10.83	11.00
18230	2.05	2.00	2.06	2.00	1.65	.....	8.01	8.00	20.53	19.60
18382	....	....	....	....	1.15	.....	13.93	14.00	12.77	12.60
18333	1.02	1.00	2.19	2.00	1.30	.....	8.61	8.00	17.12	15.60
18316	....	....	2.37	2.00	.80	.....	9.74	10.00	11.30	11.00
18231	1.42	1.00	3.06	3.00	1.15	.....	9.45	9.00	20.54	17.80
18232	1.31†	1.00	1.15	1.00	1.17	.....	7.13	7.00	15.42	13.40
18270	....	....	6.34	6.50	.70	.....	10.97	10.00	16.35	15.50
18282	1.91	2.00	....	....	5.95	.....	11.41	11.00	23.71	21.20
18398	2.27	3.00	2.05	2.00	1.57	.....	6.42	6.00	19.46	21.20
18233	3.34	3.00	....	....	24.90*	24.00*	.....	.....	24.96	23.40
18399	....	....	....	....	.08	.....	10.03	10.00	9.05	9.00
18305	.44	.50	1.95	2.00	.52	.....	7.94	8.00	13.45	13.60
18405	.73	1.00	3.05	3.00	.65	.....	9.03	9.00	17.07	17.80
18234	2.17	2.00	5.03	5.00	1.32	.....	7.83	8.00	23.64	22.60

† Contains Nitrate.

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18447	Armour Fertilizer Works, Baltimore, Md.	Fruit and Root Crop Special.	Linkwood (Jas.C. Mears.)
18283	" " "	Grain Grower	Glen Morris .....
18387	" " "	High Grade Potato Fertilizer.	Baltimore .....
18363	" " "	Horsey's Special Mixture..	Greensboro .....
18481	" " "	Horsey's Special Mixture..	Greensboro (N. Horsev of S.H)
18236	" " "	Phosphate and Potash....	Baltimore .....
18284	" " "	Phosphate and Potash No.1	Glen Morris .....
18285	" " "	Phosphate and Potash No.2	Freeland .....
18235	" " "	Phosphoric Acid and Potash.	Baltimore .....
18237	" " "	Raw Bone Meal	Baltimore .....
18238	" " "	Royal Ammoniated Bone..	Baltimore .....
18239	" " "	Special Mixture	Baltimore .....
18406	" " "	Special Mixture	Glen Morris .....
18460	" " "	Special Mixture	New London (C. E. Albaugh.)
18240	" " "	Star Phosphate	Baltimore .....
18388	" " "	Superior Bone and Potash	Baltimore .....
18364	" " "	Wheat and Clover Fertilizer.	Massey .....
18286	" " "	Wheat and Grass Special..	Freeland .....
18400	" " "	Wheat, Corn and Oat Special.	Baltimore .....
18241	" " "	Wheat Special	Baltimore .....
18334	C. A. Baile & Co., Medford, Md.	Bone Phosphate No. 3.....	Medford .....
18287	Baltimore Fertilizer Co., Baltimore, Md.	Honest Acid Phosphate...	Philopolis .....
18288	" " "	Honest Bone Phosphate...	Philopolis .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18447	1.93	2.00	5.02	5.00	.93	1.00	8.02	8.00	$22.73	$23.00
18283	1.86	2.00	2.04	2.00	1.30	....	8.22	8.00	19.86	19.60
18387	2.01†	2.00	9.28	10.00	.75	....	8.01	8.00	27.23	27.60
18363	1.26	1.50	2.23	3.00	4.15	....	7.28	8.00	17.67	18.60
18481	1.50	1.50	3.23	3.00	3.42	....	5.46	8.00	17.15	18.60
18236	....	....	4.63	5.00	.35	....	11.45	12.00	15.01	15.80
18284	....	....	2.06	2.00	.33	....	10.32	10.00	11.42	11.00
18285	....	....	5 01	5 00	.45	....	7 34	8 00	11 71	12.20
18235	....	....	5.01	5.00	.45	.....	9.58	10.00	13.72	14.00
18237	4.18	4.50	....	....	19.16*	22.00*	.....	....	24.04	26.70
18238	1.59	1.00	4.07	4.00	.87	....	7.71	8.00	20.03	17.60
18239	.92	.75	2.63	3.00	.67	.....	8.94	8.00	17.31	15.60
18406	.41	.50	1.07	1.00	.52	.....	7.78	8.00	12.26	12.60
18460	3.05	2.90	4.02	3.75	4.50	5.00	10.68	11.00	30.84	30.55
18240	....	....	....	....	.10	.....	13.66	14.00	12.31	12.60
18388	.82	1 00	7 02	7.00	75	....	8 14	8.00	20.37	20.60
18364	....	....	5.05	5.00	.47	....	10.27	10.00	14.38	14.00
18286	.78	1.00	4.92	5.00	.75	....	7.17	7.00	16.94	17.40
18400	.85	1.00	1.19	1.00	1.00	....	7.51	7.00	14.00	13.40
18241	1.16	1 00	2.16	2.00	.97	....	8.12	8.00	16.93	15.60
18334	1.45	1.25	2.96	2.00	1.62	1.50	9.63	9.50	20.97	19.00
18287	....	....	....	....	.25	....	14.97	14.00	13.52	12.60
18288	.22	.25	1.26	1.00	.15	....	7.44	7.00	11.13	10.40

† Contains Nitrate.

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18317	Baltimore Fertilizer Co., Baltimore, Md.	Honest Bone and Potash..	Baltimore .....
18389	" " "	Honest Crop Grower.....	Baltimore .....
18401	" " "	Honest Harvest	Baltimore .....
18318	" " "	Honest Standard	Baltimore .....
18242	" " "	Honest Success	Baltimore .....
18243	" " "	Old Honesty	Baltimore .....
18402	" " "	Pure Raw Bone Meal	Baltimore .....
18244	Baltimore Pulverizing Co., Baltimore, Md.	Ammoniated Butchers' Bone.	Baltimore .....
18245	" " "	Farmers' Favorite Fertilizer.	Baltimore .....
18271	" " "	High Grade Wheat Compound.	Washington Grove.
18246	" " "	Penniman's Excelsior Fertilizer.	Baltimore .....
18247	" " "	S. C. Bone.	Baltimore .....
18248	" " "	Special Fall Mixture.....	Baltimore .....
18249	Baugh & Sons Co., Baltimore, Md.	Acid Phosphate 16 percent.	Baltimore .....
18335	" " "	Acid Phosphate 14 percent.	Hoods Mills ....
18250	" " "	Ammoniated Bone Phosphate.	Baltimore .....
18306	" " "	Ammoniated Soluble Alkaline.	Baltimore .....
18360	" " "	Animal Bone and Potash Compound.	Forest Hill .....
18251	" " "	Complete Animal Bone Fertilizer.	Baltimore .....
18272	" " "	Complete Animal Bone Fertilizer.	Gaithersburg ....
18480	" " "	Complete Animal Bone Fertilizer.	Gaithersburg (T. T. Cavanaugh.)
18273	" " "	Double Eagle Phosphate...	Gaithersburg ....
18274	" " "	Excelsior Guano.....	Gaithersburg.....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18317	....	....	2.82	2.00	.27	....	9.49	10.00	$11.41	$11.00
18389	.89	1.00	1.45	1.00	.80	....	8.33	8.00	15.33	14.60
18401	1.11	1.00	3.12	2.50	.80	....	8.46	9.00	18.08	17.30
18318	1.02	1.25	4.34	3.00	.35	....	9.71	10.00	20.21	20.00
18242	1.08	1.00	4.20	4.00	2.30	....	8.11	7.00	19.17	16.40
18243	.89	.50	2.37	2.00	.78	....	8.51	8.00	16.45	13.60
18402	4.91	4.50	....	....	22.25*	21.00*	....	....	28.08	26.10
18244	1.01	1.50	1.69	1.50	1.57	.....	10.91	9.00	19.45	18 30
18245	1.16	1.00	2.65	3.25	1.85	....	7.52	5.50	17.05	13.85
18271	1.71	2.00	2.46	2.00	1.87	....	8.79	8.00	20.60	19.60
18246	....	....	2.59	2.50	1.33	....	10.91	10.00	12.68	11.50
18247	....	....	....	....	1.41	....	14.94	14.00	13.73	12.60
18248	....	....	1.87	1.00	1.75	1.00	9.26	8.00	10.05	8.40
18249	....	....	....	....	.64	....	16.39	16.00	14.88	14.40
18335	....	....	....	....	2.05	....	14.40	14.00	13.37	12.60
18250	....	....	2.13	2.00	1.50	....	8.81	10.00	10.36	11.00
18306	.70	.50	2.45	2.00	4.87	.....	8.63	8.00	17.56	13.60
18360	2.32	2.00	2.31	2.00	1.82	.....	8.49	8.00	22.51	19.60
18251	2.42	2.00	5.30	5.00	1.85	.....	8.54	8.00	25.97	22.60
18272	2.37	2.00	5.39	5.00	.80	.....	8.13	8.00	24.95	22.60
18480	1.84	2.00	5.16	5.00	.85	.....	7.80	8.00	21.62	22.60
18273	1.86	2.00	1.93	1.00	1.95	.....	8.86	8.00	20.78	18.60
18274	1.18	1.00	4.32	4.00	1.55	.....	8.28	8.00	19.60	17.60

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18307	Baugh & Sons Co., Baltimore. Md.	Export Bone with Potash.	Baltimore.....
18361	" " "	Fine Ground Bone	Fallston .....
18362	" " "	Fine Ground Bone	Abingdon .....
18336	" " "	Fish Mixture	Taneytown .....
18252	" " "	General Crop Grower.....	Baltimore .....
18442	" " "	General Crop Grower.....	Bartholows ..... (W.E.Murphy.)
18390	" " "	Grand Rapid H. G. Truck Guano.	Baltimore .....
18275	" " "	High Grade Acid Phosphate.	Rockville .....
18458	" " "	High Grade Acid Phosphate.	Mt. Airy (J. N. Clay.)
18276	" " "	High Grade Potash Mixture.	Gaithersburg ....
18414	" " "	High Grade Potash Mixture.	Vienna .....
18292	" " "	Peninsula Grain Producer..	Beltsville .....
18308	" " "	Phosphate and Potash 12x5	Baltimore .....
18434	" " "	Phosphate and Potash 12x5	Trappe (J.B.Dexter.)
18326	" " "	Phosphate and Potash 12x3	Mt. Airy .....
18459	" " "	Phosphate and Potash 12x3	Mt. Airy (J. N. Clay.)
18253	" " "	Pure Animal Bone and Muriate of Potash Mixture.	Baltimore .....
18254	" " "	Pure Dissolved Animal Bone.	Baltimore .....
18255	" " "	Raw Bone Meal	Baltimore .....
18457	" " "	Raw Bone Meal	Mt. Airy (J. N. Clay.)
18372	" " "	Raw Bone Meal	Pleasant Hill ....
18256	" " "	Soluble Alkaline Superhosphate.	Baltimore .....
18463	" " "	Special Mixture	Westminster (B. F. Shriver Co.)

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18307	3.90	2.00	2.06	2.00	7.52	.....	9.36	11.00	$27.90	$23.20
18361	3.45	3.00	....	....	17.63*	16.50*	....	.....	20.96	18.90
18362	3.46	3.00	....	....	17.87*	36.00†	....	.....	21.10	30.60
18336	2.37	2.00	2.01	2.00	.95	.....	11.40	8.00	25 55	19.60
18252	1.31	1.00	1.10	1.00	2.12	.....	7.84	8.00	16 60	14.60
18442	1.08	1.00	1.28	1.00	1.97	.....	8.89	8.00	17.06	14.60
18390	2.97	3.00	3.04	3.00	1.85	.....	8.11	9.00	25.39	25.80
18275	....	....	....	....	..80	.....	14.82	14.00	13.50	12.60
18458	....	....	....	....	1.40	....	15.50	14.00	14.23	12.60
18276	....	....	4.96	4.00	1.00	....	10.16	10.00	14.30	13.00
18414	....	....	4.72	4.00	2.62	....	10.71	10.00	14.88	13.00
18292	1.37	1.00	2.26	2.00	1.07	....	8.67	8.00	18.57	15.60
18308	....	....	5.12	5.00	.75	....	12.08	12.00	16.14	15.80
18434	....	....	5.25	5.00	1.05	....	12.80	12.00	16.98	15.80
18326	....	....	3.53	3.00	1.45	....	12.38	12.00	14.96	13.80
18459	....	....	3.61	3.00	1.72	....	12.07	12.00	14.81	13.80
18253	3.02	3.00	6.01	5.00	7.57	.....	9.17	15.00	32.12	35.00
18254	2.64	2.50	....	....	2.35	.....	14.53	13.00	23.94	25.60
18255	4.74	4.50	....	....	21.87*	21.50*	....	.....	27.34	26.40
18457	4.09	4.50	....	....	21.25*	21.50*	....	.....	25.02	26.40
18372	4.42	4.50	....	....	21.41*	21.50*	....	.....	26.11	26.40
18256	....	....	2.58	2.00	1.25	.....	10.07	10.00	11.89	11.00
18463	....	....	4.01	3.50	11.65	12.00	7.62	6.00	13.20	11.30

+"Bone Phosphate." *Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
.....			
18595	Baugh & Sons Co., Baltimore, Md.	Walker's Mixture	Gaithersburg .....
18257	" " "	Wheat Fertilizer for Wheat and Grass.	Baltimore .....
18366	Beck-Walker Co., Chestertown, Md.	Good Drilling 10x5.....	Chestertown .....
18365	" " "	Propagator Super-Phosphate.	Chestertown .....
18453	" " "	Special Mixture	Locust Grove (S. J. Comley.)
18367	" " "	Try Me Super-Phosphate..	Worton .....
18449	" " "	12 x 5.....	Chestertown (P. A. M. Brooks.)
18337	N. T. Bennett, New Windsor, Md.	Stoufier's Butcher Hous Phosphate.	New Windsor ...
18338	" " "	Stouffer's Soluble Wheat Grower.	New Windsor....
18373	Berg Company, Philadelphia, Pa.	Pure Dissolved Bone and Potash.	Elkton .....
18354	" " "	Raw Bone.	Calvert .....
18355	" " "	Vigor Volo Bone and Potash.	Blue Ball .....
18339	A. D. Birely & Son, Ladiesburg. Md.	Ammoniated Bone Phosphate.	Taneytown .....
18340	* " " "	Crop Producer	Taneytown .....
18277	Bryant Fertilizer Co., Alexandria, Va.	Ammoniated Dissolved Bone.	Kensington .....
18368	" " "	Bone and Potash Mixture.	Whites Ferry ....
18278	" " "	Formula "E.".....	Kensington .....
18369	" " "	Jenkin's Fish and Bone Fertilizer.	White's Ferry....
18370	" " "	Jenkin's Grain and Grass Producer.	White's Ferry ....
18279	" " "	Queen Ammoniated Dissolved Bone.	Dawsonville .....
18280	" " "	Raw Bone	Seneca .....
18371	" " "	S. C. Dissolved Bone.....	White's Ferry....

* For Wm. H. Bixler's brands see page 54.

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
...	....	....	....	....	....	.....	.....	.....	$.....	$.....
18595	1.16	1.00	2.13	1.50	2.25	.....	9.16	9.00	18.66	16.80
18257	2.27	2.00	2.37	2.00	2.22	.....	7.95	8.00	21.88	19.60
18366	....	....	4.92	5.00	2.47	.....	10.15	10.00	14.55	14.00
18365	2.01	2.00	2.51	2.00	2.47	.....	8.54	8.00	21.79	19.60
18453	1.59	2.00	5.13	5.00	1.95	.....	10.23	9.00	24.55	23.80
18367	.52	.50	3.48	3.00	2.92	.....	8.91	9.00	17.42	15.80
18449	....	....	4.48	5.00	.58	.....	12.68	12 00	16.01	15 80
18337	.77	.75	3.12	2.50	·47	1·00	8.98	8.00	17.17	15.50
18338	.72	.50	2.94	2.00	1·45	2·00	9.26	7.00	17.51	13.20
18373	2.13	2.43†	3.48	5.00	3·07	.·..	8.25	9.00	23.13	25.52
18354	4.62	3.65¶	....	....	22·76*	20·00*	....	.. ..	27.52	22.95
18355	1.79	2.43†	5.27	5.00	4·97	.·..	9.28	18 00*	25.56	36.32
18339	.77	.50	1.03	1.00	1·97	1·00	9.11	8.00	15.83	13.00
18340	....	....	1.84	2.00	·95	1·00	9.59	9.00	10.66	10.30
18277	1.04	1.00	.85	1.00	2·70	.·..	7.45	8.00	15·03	14.60
18368	....	....	2.25	2.00	1.40	.....	10.98	10.00	13.41	11.00
18278	2.18	2.00	1.89	2.00	2.35	.....	8.43	8.00	21.67	19.60
18369	.96	1.00	4.43	4.00	1.35	.....	8.52	8.00	19.03	17.60
18370	1.02	1.00	.95	1.00	2.62	.....	7.68	8.00	15.30	14.60
18279	1.01	1.00	1.02	1.00	2.52	.....	7.92	8.00	15.57	14.60
18280	4.98	4.50	....	....	22.90*	21.50*	....	*	28.68	26.40
18371	....	....	....	....	1.07	.....	14.90	14.00	13.62	12.60

† Nitrogen 2% = 2.43% Ammonia. * Total Phosphoric Acid.
¶ Nitrogen 3% = 3.65% Ammonia.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18378	Henry Cope & Co., Lincoln University, Pa.	Acid Phosphate	Rising Sun.....
18379	" " "	Queen of Elk Valley Phosphate.	Rising Sun.....
18374	" " "	Soluble Bone and Potash..	Port Deposit ....
18356	" " "	Wheat Grower and Complete Manure.	Calvert .....
18375	Josiah Cope & Co., Oxford, Penna.	Pure Bone Phosphate.....	Rising Sun.....
18416	L. E. P. Dennis & Son, Crisfield, Md.	Fish and Potash Mixture No. 2.	Crisfield .....
18417	" " "	Klondike Fish and Potash Mixture.	Crisfield .....
18293	Joshua W. Dorsey. Ellicott City, Md.	Mixture "D" Phosphate...	Ellicott City ....
18258	Dudley & Carpenter, Baltimore, Md.	Special Wheat Mixture...	Baltimore .....
18319	Edelen Bros., Baltimore, Maryland.	Special Wheat and Grain Mixture.	Baltimore .....
18410	T. W. Eliason, Chestertown, Md.	Our Special Dissolved Alkaline Phosphate & Pot'h	Baltimore .....
18341	Englar Bro. & Co., Linwood. Md.	Ammoniated Bone Phosphate No. 1.	Linwood .....
18342	" " "	Ammoniated Bone Phosphate No. 2.	Linwood .....
18343	Eureka Fertilizer Co., Perryville, Md.	Alkaline Bone and Potash.	Taneytown .....
18413	" " "	Complete Compound	Keedysville .....
18380	" " "	Farmer's Favorite Bone Phosphate.	Port Deposit ....
18357	" " "	Fish, Bone and Potash ...	Elkton .....
18344	" " "	Grain and Grass Mixture..	Taneytown .....
18376	" " "	P. & P. Super-Phosphate..	Rising Sun .....
18259	W. S. Farmer & Co., Baltimore.	B. & P. Phosphate.....	Baltimore .....
18309	" " "	Clyde Brand	Baltimore .....
18404	" " "	Dissolved S. C. Bone.....	Baltimore .....
18310	" " "	Empire Alkaline Bone ...	Baltimore .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18378	....	....	....	....	1.85	....	14.80	14.00	$13.59	$12.60
18379	1.54†	2.00	8.18	8.00	.95	....	6.84	7.00	22.93	24.40
18374	....	....	3.95	4.00	1.30	....	8.46	9.00	11.82	12.10
18356	1.28†	1.50	4.38	4.00	1.02	....	7.19	7.00	18.54	18.40
18375	2.42	2.25	4.24	4.00	3.97	4.50	9.75	9.00	27.21	25.60
18416	2.08	2.00	3.73	3.00	1.05	....	6.95	7.00	20.81	19.40
18417	1.33	1.25	2.63	2.00	1.20	....	6.10	7.00	15.75	15.40
18293	2.35	2.25	4.16	4.00	1.50	1.50	9.39	9.00	25.43	24.40
18258	....	....	3.04	3.00	.70	....	12.58	12.00	14.50	13.80
18319	1.37†	1.00	2.21	2.00	1.87	....	10.88	9.00	21.50	16.80
18410	....	....	1.93	1.50	.62	....	12.67	11.00	13.45	11.40
18341	1.95	2.00	1.84	1.50	1.35	....	9.79	9.50	21.93	20.90
18342	1.01	1.00	2.82	2.40	.55	....	9.84	9.80	18.89	18.16
18343	....	....	2.24	2.00	1.05	2.00	10.43	10.00	11.84	11.40
18413	1.28	1.00	4.82	5.00	1.17	....	8.46	7.00	20.54	17.40
18380	1.00	2.00	2.28	2.00	1.00	....	9.34	8.00	20.29	19.60
18357	.60	.50	1.01	1.00	1.37	....	8.90	8.00	14.64	12.60
18344	1.11	1.00	2.31	2.00	1.60	....	8.10	8.00	17.11	15.60
18376	....	....	....	....	1.40	....	14.48	14.00	18.31	12.60
18259	....	....	2.18	2.00	1.07	....	10.23	10.00	11.55	11.00
18309	1.02	1.00	2.08	2.00	2.30	....	8.04	8.00	16.73	15.60
18404	....	....	....	....	.87	....	14.24	14.00	12.99	12.60
18310	....	....	5.60	5.00	.80	....	9.94	10.00	14.71	14.00

† Contains Nitrate.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18391	W. S. Farmer & Co., Baltmore, Md.	Fish Mixture	Baltimore .....
18260	" " "	Harvest Queen Phosphate..	Baltimore .....
18261	" " "	Standard Phosphate	Baltimore .....
18345	Farmers' Fertilizer Co. of Union Bridge, Md.	Bone Phosphate No. 1....	Union Bridge....
18437	" " "	Tankage	Alesia (E. J. Rupp.)
18346	" " "	Union Bridge Favorite...	Union Bridge ....
18347	Farmers' Fertilizer & Feed Co., Westminster, Md.	Bone Phosphate No. 1....	Westminster .....
18348	" " "	Bone Phosphate No. 2....	Westminster .....
18349	" " "	Bone Phosphate No. 3....	Westminster .....
18350	" " "	Carroll Bone Phosphate...	Melrose .....
18473	" " "	High Grade Bone Phosphate.	Hagerstown (Isaac Emmert)
18352	" " "	P. A. & P. Phosphate.....	Millers .....
18351	" " "	X. X. Bone Phosphate.....	Westminster ....
18418	Farmers' & Planters' Co., Salisbury, Md.	Fish Mixture	Salisbury .....
18419	" " "	General Crop Grower.....	Salisbury .....
18320	J. W. Freeman, Great Mills, Md.	Crop Grower	Baltimore .....
18321	T. H. Gill, Avalon, Va.	Try Me Fertilizer	Baltimore .....
18421	Griffith & Boyd Co., Baltmore, Md.	Ammoniated Bone Phosphate.	Baltimore .....
18294	" " "	Buyers' Mixture.	Ellicott City .....
18392	" " "	Cereal Bone Plant Food...	Baltimore .....
18262	" " "	Fish, Bone and Potash...	Baltimore .....
18289	" " "	Gem Phosphate	Philopolis .....
18263	" " "	Harvest Queen	Baltimore .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18391	1.96	2.00	2.15	2.00	1.80	....	7.92	8.00	$20.21	$19.60
18260	1.48	1.25	2.91	3.00	1.25	....	9.05	9.00	19.99	18.80
18261	2.95	2.62	2.45	2.50	1.85	....	9.93	10.00	26.91	25.00
18345	1.72	1.50	2.34	2.25	1.75	....	10.21	8.00	22.17	17.85
18437	10.10	11.55	....	....	6.90*	6.42*	....	....	34.44	38.50
18346	1.38	1.00	2.39	2.00	1.22	....	9.36	8.00	19.63	15.60
18347	2.39	2.50	2.78	2.50	.52	2.00	9.31	9.00	23.72	24.10
18348	1.79	2.00	2.62	2.50	.62	1.00	9.26	9.00	21.14	21.70
18349	1.72	1.50	3.38	3.00	.50	1.00	8.46	8.00	20.61	19.00
18350	.60	.50	3.09	2.00	.25	1.00	7.86	7.00	15.02	12.80
18473	2.30	2.00	5.02	5.00	.48	1.00	11.86	11.00	28.64	26.60
18352	....	....	3.08	3.00	.15	....	10.26	11.00	12.34	12.90
18351	1.11	1.00	3.38	3.00	.57	1.00	9.54	9.00	19.50	18.20
18418	1.83	2.00	1.96	2.00	1.85	....	9.61	8.00	21.55	19.60
18419	.94	1.00	1.49	2.00	1.82	....	11.82	10.00	20.16	18.00
18320	1.13	1.00	1.17	1.00	1.12	1.50	8.33	8.00	16.14	15.20
18321	2.17†	2.00	2.18	2.00	.95	....	10.81	9.00	24.21	20.80
18421	1.95	2.00	2.90	2.00	2.17	....	6.63	8.00	19.58	19.60
18294	....	....	2.78	5.00	1.65	....	12.38	12.00	14.25	15.80
18392	.84	1.00	2.43	2.00	2.75	....	8.47	8.00	17.05	15.60
18262	1.84	1.75	2.42	3.00	2.35	....	7.37	7.00	19.56	18.40
18289	....	....	2.72	3.00	3.32	....	6.48	6.50	9.21	8.85
18263	1.26	1.25	3.01	3.00	2.07	....	8.66	9.00	19.27	18.80

† Contains Nitrate.

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18452	Griffith & Bovd Co., Baltimore, Md.	High Grade Acid Phosphate.	Earleville (Chas. Tims.)
18264	" " "	Peerless Fertilizer	Baltimore .....
18381	" " "	Pure Dissolved Animal Bone.	Rising Sun.....
18383	" " "	Pure Fine Ground Bone Meal	Baltimore .....
18265	" " "	Royal Potash Guano.....	Baltimore .....
18377	" " "	Soft Ground Bone Meal..	McChanics Valley
18266	" " "	Special Alkaline Bone Mixture.	Baltimore .....
18492	" " "	Special Alkaline Bone Mixture.	Cecilton (J. A. Pierce.)
18322	" " "	Special Grain Grower.....	Baltimore .....
18290	" " "	Special Guano	Philopolis .....
18267	" " "	Spring Crop Grower	Baltimore .....
18268	" " "	Stable Manure Substitute..	Baltimore .....
18269	" " "	Valley Fertilizer	Baltimore .....
18303	" " "	X. X. Potash Manure.....	Baltimore .....
18428	" " "	X. X. Potash Manure.....	Galena (Wm. S. Dill.)
18495	" " "	X. X. Potash Manure.....	Kennedyville (P. Myers.)
18422	Griffith & Turner Co., Baltimore, Md.	Ammoniated Butchers' Bone Phosphate.	Baltimore .....
18423	" " "	Animal Bone Phosphate...	Baltimore .....
18424	" " "	High Grade Acid Phosphate.	Baltimore .....
18425	" " "	Soft Ground Bone.....	Baltimore .....
18426	" " "	Special Potato Mixture....	Baltimore .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18452	....	....	....	....	3.35	.....	14.03	14.00	$13.30	$12.60
18264	.48	.35	2.07	2.00	2.35	.....	8.43	8.00	15.05	13.00
18381	2.51	2.50	....	....	3.52	.....	9.69	10.00	23.08	22.00
18393	4.81	4.00	....	....	20.90*	22.00*	....	.....	26.97	25.20
18265	1.37	1.00	4.01	4.00	2.38	.....	7.30	8.00	19.20	17.60
18377	2.75	3.00	....	....	9.37	.....	2.98	11.00	18.33	25.20
18266	....	....	2.13	3.00	2.50	.....	12.07	12.00	13.49	13.80
18492	....	....	2.37	3.00	1.65	.....	12.02	12.00	13.52	13.80
18322	....	....	2.07	2.00	1.45	.....	10.14	10.00	11.49	11.00
18290	1.91	2.00	4.54	5.00	1.62	.....	9.49	8.00	24.22	22.60
18267	1.59	2.00	3.79	4.50	2.15	.....	8.34	6.50	21.02	20.30
18268	2.92	3.50	3.56	4.00	1.65	.....	6.03	5.00	23.14	24.00
18269	.84	.50	2.48	3.00	1.80	.....	8.01	8.00	16.17	14.60
18303	....	....	4.49	5.00	1.52	.....	10.39	10.00	14.14	14.00
18428	....	....	4.37	5.00	2.35	.....	9.76	10.00	13.62	14.00
18495	....	....	4.65	5.00	2.47	.....	9.05	10.00	13.29	14.00
18422	.90	1.25	3.36	1.50	2.10	....	7.53	9.00	16.84	17.30
18423	2.58	2.50	2.08	1.50	2.12	1.00	8.18	10.00	23.07	23.90
18424	....	....	....	....	1.37	1.00	13.55	14.00	12.47	12.80
18425	2.18	2.00	....	....	22.46*	50.00†	....	.....	20.02	36.00
18426	1.30	1.00	4.79	5.00	1.15	.....	8.02	8.00	20.07	18.60
	....	....	....	....	....	.....	....	.....	.....	.....
	....	....	....	....	....	.....	....	.....	.....	.....

† Bone Phosphate. * Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18659	Edgar Hammond, Walkersville, Md.	Old Liberty Ammoniated Bone.	Walkersville .....
18666	Hampstead Fertilizer Co., Hampstead, Md.	Grain and Grass Grower..	Hampstead.....
18667	" "	Old Honesty	Hampstead .....
18668	" "	Standard	Hampstead .....
18720	S. M. Hess & Bro., Philadelphia. Pa.	Ammoniated Bone Super-Phosphate.	Theadore .....
18571	" "	Farmers' Cereal King.....	Derwood .....
18500	" "	Keystone Bone Phosphate.	Baltimore .....
18572	" "	Peerless Phosphate	Boyds .....
18629	" "	Soluble Bone	Baltimore .....
18573	" "	Soluble Bone and Potash..	Boyds .....
18574	" "	Special Compound	Derwood .....
18742	" "	Special Top Dresser	Baltimore .....
18501	" "	Wheat and Grass Manure..	Baltimore .....
18619	Home Fertilizer & Chemical Works, Baltimore, Md.	Boykin's Alkaline Bone ...	Baltimore .....
18639	" "	Everybody's Fertilizer	Baltimore .....
18743	" "	Home Bone and Potash...	Baltimore .....
18502	Wm. H. Hood, Mt. Airy, Maryland.	Special Mixture for Grain and Grass	Mt. Airy .....
18575	Hubbard Fertilizer Co., Baltimore, Md.	Climax Bone Super-Phosphate	Poolesville .....
18576	" "	Columbia Gem Phosphate	Poolesville .....
18691	" "	Dissolved Animal Bone and Potash.	Conowingo .....
18669	" "	Dissolved Bone Phosphate.	Taneytown .....
18718	" "	Farmers' I. X. L. Super-Phosphate	Colora .....
18630	" "	Oriental Phosphate	Baltimore .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18659	1.25	1.00	4.50	4.00	1.62	1.00	7.19	7.00	$18.78	$16.80
18666	2.39	2.00	2.96	2.00	.80	....	8.33	8.00	22.84	19.60
18667	.92	1.00	2.95	2.00	.52	....	8.58	8.00	17.14	15.60
18668	1.50	1.25	4.44	3.00	.45	....	10.79	10.00	23.57	20.00
18720	1.88	2.00	2.28	2.00	1.77	....	8.01	8.00	20.12	19.60
18571	....	....	3.26	3.00	.60	1.00	11.82	12.00	14.02	14.00
18500	1.14	1.00	1.23	1.00	1.77	2.00	7.81	8.00	15.87	15.40
18572	....	....	5.28	5.00	.85	1.00	12.03	12.00	16.28	16.00
18629	....	...0	....	....	1.12	1.00	14.02	14.00	12.84	12.80
18573	....	...0	2.02	2.00	.55	1.00	10.48	10.00	11.56	11.20
18574	1.16	1.00	3.48	4.00	1.85	1.00	8.43	8.00	18.98	18.00
18742	2.41	2.50	....	....	2.70	....	11.66	12.00	24.71	24.40
18501	1.03	1.00	2.01	2.00	2.60	1.00	7.95	8.00	16.71	16.00
18619	....	...0	2.14	2.00	.95	1.00	10.72	10.00	11.98	11.20
18639	1.11	1.00‡	2.10	2.00	1.40	....	10.09	9.00	19.21	16.80
18743	....	...0	5.90	5.00	1.03	1.00	10.04	10.00	15.16	14.20
18502	1.13	1.00	2·02	2.00	3.90	....	8.18	9.00	17.92	16.80
18575	1 09	1.00	4·48	4.00	1.62	....	8.45	7.00	19.63	16.40
18576	.77	.50	1·88	1.00	1.87	....	8.79	8.00	16.26	12.60
18691	1.26	1.00	2·41	2.00	1.15	....	8.80	8.00	18.47	15.60
18669	....	....	....	....	1.07	....	15.54	14.00	14.20	12.60
18718	1.93†	2.00	2·74	2.00	1.45	....	8.62	8.00	21.38	19.60
18630	.96	1.00	1·65	1.00	.47	....	9.65	8.00	17.26	14.60

† Contains Nitrate.

‡ Nitrogen 0.825 = 1% Ammonia.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18470	Hubbard Fertilizer Co., Baltimore, Md.	Rock and Potash.....	Mt. Airy (Wm.H. Hardy.)
18471	" " "	Rock and Potash	Mt. Airy (Arthur Hardy)
18577	" " "	Soluble Bone Phosphate...	Gaithersburg .....
18615	" " "	Soluble Bone and Potash..	Savage .....
18719	" " "	Special Mixture of Bone and Potash.	Colora .....
18640	" " "	Standard Bone Super-Phosphate.	Baltimore .....
18616	" " "	Wheat Growers' Jewel....	Savage .....
18445	M. P. Hubbard Co.. Baltimore, Md.	Acid Phosphate...	Boring(K.Kemp.)
18631	" " "	Acme Bone Fertilizer	Baltimore .....
18489	" " "	Acme Bone Fertilizer	Ridgely (G. K. Ebling.
18431	" " "	Acme Bone Fertilizer	Marydel (J. W. Smith.)
18767	" " "	Beckley's Bone Mixture...	Halfway .....
18789	" " "	Bermuda 7 Percent Guano	Baltimore.....
18641	" " "	Celebrated Bone Phosphate	Baltimore .....
18642	" " "	Dissolved Bone	Baltimore .....
18744	" " "	Excelsior Bone Phosphate.	Baltimore .....
18790	" " "	Fish, Bone and Potash....	Baltimore .....
18503	" " "	Harvest King	Baltimore .....
18504	" " "	Old Economy	Baltimore .....
18617	" " "	Maloney's Special Mixture	Ellicott City .....
18444	" " "	Muriate of Potash 80%...	Boring (K.Kemp.)
18505	" " "	Pure Ground Bone.....	Baltimore .....
18745	" " "	Pure Raw Bone.....	Baltimore .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18470	....	....	2.31	2.00	1.67	.....	10.11	10.00	$11.74	$11.00
18471	....	....	2.27	2.00	1.55	.....	10.07	10.00	11.64	11.00
18577	....	....	....	....	.95	.....	15.01	14.00	13.70	12.60
18615	....	....	2.24	2.00	1.22	.....	10.62	10.00	12.04	11.00
18719	....	....	4.69	4.00	.88	.....	10.21	10.00	14.06	13.00
18640	1.83†	2.00	3.52	3.00	1.22	.....	8.15	8.00	21.11	20.60
18616	1.79	1.50	2.35	2.00	.52	.....	9.51	9.00	21.13	18.80
18445	....	....	....	....	.12	.....	18.61	16.00	16.77	14.40
18631	1.37	1.00	4.51	4.00	1.10	.....	9.52	8.00	21.85	17.60
18489	1.74	1.00	5.01	4.00	1.15	.....	9.02	8.00	23.25	17.60
18431	1.01	1.00	5.34	4.00	.95	.....	8.82	8.00	20.34	17.60
18767	1.67	1.50	....	....	1.35	.....	14.92	14.00	25.12	22.80
18789	6.11†	7 00	4.62	4.00	.85	.....	7.60	7.00	38.52	40.40
18641	1.89	2.00	3.32	2.00	1.12	.....	8.87	8.00	21.97	19.60
18642	3.19	2.50	....	....	1.60	.....	10.66	11.00	26.19	23.20
18744	1.37	1.00	2.48	2.00	.52	.....	9.22	8.00	19.23	15.60
18790	43	.25	1.61	1.00	.57	....	6.46	8.00	11.31	11.60
18503	1.25	1.00	4.10	3.00	1.02	....	9.15	9.00	20.49	17.80
18504	.41	.50	2.39	2.00	1.10	....	8.77	8.00	14.99	13.60
18617	2.10	2.00	6.54	5.00	.60	....	10.89	9.00	28.25	23.80
18444	....	....	50.68	80.00	....	....	....	....	.....	.....
18505	2.27	2.00	....	....	24.71*	22.90*	....	....	21.64	19.74
18745	3.63	4.00	....	....	28.69*	40.00‡	....	....	25.10	36.00

† Contains Nitrate.
¶ "Bone Phosphate."
* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18484	M. P. Hubbard & Co., Baltimore, Md.	Pure Raw Bone.....	Glencoe (U. H. Tarbert.)
18446	" " "	Pure Raw Bone.....	Boring (K. Kemp)
18506	" " "	Soluble Bone and Potash..	Baltimore .....
18724	" " "	Soluble S. C. Phosphate..	Reisterstown .....
18439	" " "	Soluble S. C. Phosphate..	Cordova (W. A. Walls.)
18507	" " "	Special Potato and Tomato Fertilizer.	Baltimore .....
18757	" " "	X. X. X. X. Bone and Potash Mixture.	Baltimore .....
18440	" " "	X. X. X. X. Bone and Potash Mixture.	Cordova (W. A. Walls.)
18454	Wilbur W. Hubbard, Chestertown, Md.	Bone Special Mixture.....	Locust Grove (S. J. Comley.)
18708	" " "	Bone Special Super-Phosphate	Chestertown .....
18709	" " "	Our Imperial Compound..	Chestertown .....
18710	" " "	Our Victor Fertilizer.....	Chestertown .....
18711	" " "	Pennington's Mixture	Chestertown .....
18477	" " "	Special Mixture	Princess Anne (J. G. Scott.)
18508	Lister's Agricultural Chemical Works, Newark. N.J.	Alkaline Bone	Baltimore .....
18768	" " "	Ammoniated Dissolved Bone	Chewsville .....
18509	" " "	Atlas Brand Bone and Potash	Baltimore .....
18692	" " "	Bone Meal.	Havre de Grace..
18732	" " "	Buyers' Choice 14% Acid Phosphate.	Baltimore .....
18602	" " "	Buyers' Choice 14% Acid Phosphate.	Glencoe .....
18758	" " "	Celebrated Ground Bone...	Baltimore .....
18600	" " "	Crop Producer.	Glencoe .....
18510	" " "	"G." Brand Fertilizer.....	Baltimore .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18484	3.99	4.00	....	....	14.47*	40.00†	.....	....	$20.65	$36.00
18446	4.20	4.50	....	....	22.79*	48.00†	.....	....	26.27	42.30
18506	....	....	2.78	2.00	1.12	2.00	10.69	10.00	12.62	11.40
18724	....	....	....	....	.95	....	16.73	14.00	15.25	12.60
18439	....	....	....	....	.55	....	16.44	14.00	14.91	12.60
18507	2.24	2.00	5.76	5.00	.67	....	7.71	7.00	24.24	21.40
18757	....	....	5.65	5.00	.82	....	12.92	12.00	17.44	15.80
18440	....	....	5.01	5.00	.50	....	13.35	12.00	17.13	15.80
18454	.60	1.00	3.65	3.00	.45	....	7.63	9.00	15.39	17.80
18708	1.21	1.00	5.61	3.00	.35	....	7.97	9.00	20.15	17.80
18709	1.11	1.00	4.98	4.00	.50	....	8.35	8.00	19.64	17.60
18710	1.31	1.00	5.28	3.00	.45	....	8.33	8.00	20.70	16.60
18711	.26	.50	3.11	3.00	.63	....	7.86	8.00	13.85	14.60
18477	.21	.50	4.89	5.70	.08	....	11.89	11.20	16.45	21.14
18508	....	....	2.25	2.00	1.10	....	9.68	10.00	11.18	11.00
18768	2.52	2.50	2.07	1.50	2.00	...	8.07	8.00	22.63	21.10
18509	....	....	5.01	5.00	1.22	1.00	12.38	12.00	16.39	16.00
18692	4.49	3.25	....	....	23.11*	23.00*	.....	.....	27.34	23.55
18732	....	....	....	....	.95	....	14.50	14.00	13.24	12.60
18602	....	....	....	....	.72	....	14.33	14.00	13.04	12.60
18758	2.37	3.25	....	....	16.82*	12.00*	....	....	17.20	16.95
18600	1.02	1.00	1.26	1.00	1.03	....	7.58	7.00	14.85	13.40
18510	1.14	1.00	4.11	4.00	1.60	....	8.09	8.00	19.02	17.60

* Total Phosphoric Acid. † "Bone Phosphate."

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18733	Lister's Agricultural Chemical Works, Newark, N.J.	Golden Sheaf Brand Fertilizer.	Baltimore .....
18511	" " "	Harvest Queen Phosphate..	Baltimore .....
18601	" " "	Pure Bone Meal.....	Glencoe .....
18578	" " "	Special Crop Producer....	Rockville .....
18727	" " "	Special 10% Potato Fertilizer.	Towers Wharf ..
18579	" " "	Standard Pure Bone Super Phosphate of Lime.	Gaithersburg .....
18725	N. Markel, Seitzland, Pa.	Ammoniated Bone Phosphate.	Freeland .....
18670	D. B. Martin Co., Philadelphia, Pa.	Acid Phosphate	Lineboro .....
18618	" " "	Bullhead Cotton and Tobacco Fertilizer.	Laurel .....
18689	" " "	Clark's Standard Bone Phosphate.	Ellicott City .....
18623	" " "	Clarmont Vegetable Grower.	Leslie .....
18632	" " "	Corn and Cereal Special...	Baltimore .....
18472	" " "	Corn and Cereal Special...	Denton (Z. Horsey.)
18512	" " "	Crop Producer	Baltimore .....
18513	" " "	Dissolved Organic Compound.	Baltimore .....
18514	" " "	One, Eight and Four.....	Baltimore .....
18603	" " "	One, Eight and Four.....	Cockeysville .....
18464	" " "	One, Eight and Four.....	Two Johns (B.F. Edgell)
18455	" " "	One, Eight and Four.....	East New Market (F B. Clifton.)
18499	" " "	One, Eight and Four.....	East New Market (H. H Phillips)
18734	" " "	Potash and Soluble Bone..	Baltimore .....
18746	" " "	Potash and Soluble Bone..	Baltimore .....
18624	" " "	Pure Dissolved Animal Bone.	Leslie .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18733	.68	.50	2.16	2.00	1.85	....	8.19	8.00	$15.45	$13.60
18511	1.72	1.50	2.21	2.00	1.90	....	8.44	9.00	19.98	18.80
18601	3.87	3.25	....	....	21.18*	23.00*	....	....	24.32	23.55
18578	1.14	1.00	1.17	1.00	1.07	....	7.30	7.00	14.92	13.40
18727	1.93	2.00	10.35	10.00	1.95	....	8.16	8.00	28.64	27.60
18579	2.92	3.00	2.02	2.00	2.30	....	9.40	9.00	25.90	24.80
18725	2.06	2.00	2.35	2.00	2.32	1.00	8.57	8.00	21.80	20.00
18670	....	....	....	....	.65	. ..	14.64	14.00	13.31	12.60
18618	2.78	3.00	3.25	3.00	2.17	....	7.97	8.00	24.80	24.60
18689	2.02	2.00	3.18	3.00	2.17	....	8.75	9.00	22.63	21.80
18623	3.02	3.00	5.69	5.00	2.50	....	7.57	7.00	27.85	25.40
18632	2.05	2.00	2.30	2.00	2.12	....	8.13	8.00	21.11	19.60
18472	2.12	2.00	2.11	2.00	2.05	....	7.77	8.00	20.73	19.60
18512	1.37	1.25	....	....	1.70	....	10.11	10.00	18.29	17.00
18513	1.37	1.25	2.33	2.00	1.85	....	9.02	9.00	19.37	17.80
18514	1.06	1.00	4.18	4.00	1.35	....	8.64	8.00	19.33	17.60
18603	1.18	1.00	4.01	4.00	1.00	....	8.58	8.00	19.43	17.60
18464	1.25	1.00	3.81	4.00	1.25	....	8.31	8.00	19.28	17.60
18455	1.18	1.00	4.52	4.00	1.47	....	8.49	8.00	20.02	17.60
18499	1.28	1.00	5.05	4.00	1.57	....	8.09	8.00	20.51	17.60
18734	....	....	3.25	3.00	.60	....	12.01	12.00	14.18	13.80
18746	....	....	5.35	5.00	.62	....	11.24	12.00	15.59	15 80
18624	2.25	2.00	....	....	1.95	....	12.03	12.00	24.22	22 40

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18580	D. B. Martin Co., Philadelphia. Pa.	Pure Ground Bone.....	Silver Spring ...
18620	" " "	Raw Bone Meal.....	Ellicott City .....
18515	" " "	Special Compound	Baltimore .....
18516	" " "	Special Potato Manure....	Baltimore .....
18517	" " "	Sure Grower	Baltimore .....
18716	Mayfield & Brown, Georgetown, D. C.	H. Special Mixture Fertilizer.	Martinsburg ...
18672	F. Mehring, Bruceville, Md.	Dissolved Raw Bone.....	Bruceville .....
18671	" " "	Emmert's Half and Half..	Bruceville .....
18660	" " "	General Crop Grower.....	Walkersville ...
18673	" " "	Potash and Phosphoric Acid.	Bruceville .....
18674	" " "	Twenty Six Dollar Phosphate.	Uniontown .....
18436	Miller Fertilizer Co., Baltimore, Md.	Acid Phosphate	Alesia (E.J.Rupp)
18441	" " "	Alkaline	Millington (J. E. Edwards)
18643	" " "	Ammoniated Dissolved Bone.	Baltimore .....
18747	" " "	Clinch Phosphate Rock and Potash.	Baltimore .....
18518	" " "	Club Brand	Baltimore .....
18621	" " "	Dissolved Raw Bone.....	Ellicott City .....
18486	" " "	Dissolved Raw Bone.....	Sykesville (J. O. Devries.)
18644	" " "	Farmers' Profit	Baltimore .....
18487	" " "	Farmers' Profit	Sykesville (J. O. Devries.)
18693	" " "	Ground Bone	Forest Hill .....
18622	" " "	Harvest Queen	Ellicott City .....
18485	" " "	Harvest Queen	Sykesville (J. O. Devries.)

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18580	2.29	2.00	....	....	24.31*	22.00*	....	....	$21.46	$19.20
18620	4.52	4.00	....	....	23.67*	21.00*	....	....	27.76	24.60
18515	2.08	2.00	5.75	5.00	2.30	....	7.38	8.00	23.85	22.60
18516	1.13	1 00	5.10	5.00	1.15	....	8.05	8.00	19.74	18.60
18517	1.31	1.00	1.09	1.00	1.20	....	8.76	8.00	17.32	14.60
18716	1.06	1.00	1.39	1.00	1.27	....	9.30	8.00	17.30	14.60
18672	2.17	2.00	....	....	.52	1.00	15.52	14.00	27.51	25.20
18671	1.01	.75	1.86	2.00	1.47	1.00	14.05	13.00	23.35	21.00
18660	1.09	1.00	1.41	1.25	3.85	1.00	10.62	10.00	20.05	17.65
18673	....	....	1.72	2.00	2.32	1.00	12.79	12.00	13.69	13.00
18674	1.59	1.50	1.62	1.50	4.10	1.00	11.08	10.00	22.92	19.90
18436	....	....	....	....	1.10	2.00	16.31	14.00	14.90	13.00
18441	....	....	5.19	5.00	.88	....	12.33	12.00	16.47	15.80
18643	2.08	2.00	2.18	2.00	1.51	1.50	8.04	8.00	20.75	20.20
18747	....	....	2.43	2.00	1.00	2.00	10.92	10.00	12.46	11.40
18518	.77	.50	2.18	2.00	1.05	1.50	8.21	8.00	15.53	14.20
18621	2.54	2.50	....	....	3.85	....	11.55	11.00	25.56	23.20
18486	2.39	2.50	....	....	1.90	2.00	11.51	11.00	24.13	24.00
18644	1.13	1.00	5.24	5.00	1.12	1.50	8.43	8.00	20.33	19.20
18487	1.21	1.00	5.08	5.00	.85	1.50	8.02	8.00	19.88	19.20
18693	5.26	4.50	....	....	23.08*	21.30*	....	....	29.63	26.28
18622	1.43	1.25	3.08	2.75	1.00	1.50	8.80	9.00	19.76	19.15
18485	1.38	1.25	2.83	2.75	1.04	1.50	8.89	9.00	19.44	19.15

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18645	Miller Fertilizer Co., Baltimore, Md.	Hustler Phosphate	Baltimore .....
18748	" " "	Potato and Vegetable Grower.	Baltimore .....
18605	" " "	S. C. Rock.....	Philopolis .....
18604	" " "	Special Tobacco Grower..	Philopolis .....
18519	" " "	Standard Phosphate	Baltimore .....
18606	" " "	W. G. Phosphate	Philopolis .....
18690	" " "	W. G. Phosphate	Middletown .....
18661	Nicodemus & Grimes. Monrovia, Md.	Sullivan's S. S. S. Fertilizer	Monrovia .....
18735	G. Ober & Sons Co., Baltimore, Md.	Dissolved Animal Bone and Potash.	Baltimore .....
18493	" " "	Dissolved Bone Phosphate.	Cecilton (J. A. Pierce.)
18520	" " "	Dissolved Bone Phosphate and Potash.	Baltimore .....
18521	" " "	Farmers' Mixture	Baltimore .....
18646	" " "	Farmers' Standard Ammoniated Phosphate.	Baltimore .....
18736	" " "	Fish, Bone and Potash Mixture.	Baltimore .....
18737	" " "	High Grade Acid Phosphate.	Baltimore .....
18647	" " "	Independent Ammoniated Super-Phosphate.	Baltimore .....
18633	" " "	Pure Bone Meal.....	Baltimore .....
18738	" " "	Pure Raw Bone Meal.....	Baltimore .....
18648	" " "	Soluble Ammoniated Super-Phosphate of Lime.	Baltimore .....
18649	" " "	Special Plant Food.	Baltimore .....
18795	" " "	Stag Guano	Cockeysville .....
18796	" " "	Standard Potash Compound.	Greensboro .....
18524	Patapsco Guano Co., Baltimore, Md.	Alkaline Plant Food.....	Baltimore .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18645	1.19	1.00	1.28	1.00	1.35	1.50	8.17	8.00	$16.58	$15.20
18748	1.96	2.00	4.32	4.00	.98	1.50	8.25	8.00	22.45	22.20
18605	....	....	....	....	1.17	....	14.48	14.00	13.26	12.60
18604	2.01	2.00	4.19	4.00	1.52	1.50	8.14	8.00	22.61	22.20
18519	3.21	3.00	3.14	3.00	1.47	1.50	8.04	8.00	26.22	25.20
18606	.65	.50	1.24	1.00	.92	1.50	6.91	7.00	12.50	12.00
18690	.58	.50	1.27	1.00	.50	....	6.53	7.00	11.63	11.40
18661	2.06	2.00	1.49	2.00	2.47	....	8.96	9.00	21.47	20.80
18735	2.29	2.50	2.88	3.00	.87	....	12.33	10.00	27.19	25.00
18493	....	....	2.21	2.00	.60	....	13.03	12.00	14.06	12.80
18520	....	....	1.94	2.00	1.15	....	11.39	10.00	12.42	11.00
18521	1.13†	1.00	2.44	2.00	1.57	....	10.14	9.00	19.76	16.80
18646	2.10†	2.00	2.39	2.00	1.90	....	10.20	9.00	23.79	20.80
18736	3.60	3.25	3.29	3.50	1.15	....	9.48	8.00	29.53	26.10
18737	....	....	....	....	.13	....	19.03	16.00	17.16	14.40
18647	1.09	1.00	1.57	1.00	.80	....	10.10	8.00	18.37	14.60
18633	3.52	3.00	....	....	25.09*	22.00*	....	.....	25.61	22.20
18738	4.73	4.50	....	....	23.27*	21.00*	....	.....	23.15	26.10
18648	2.17†	2.00	2.43	2.00	1.60	....	9.80	8.00	23.51	19.60
18649	2.54†	2.00	5.61	5.00	.72	....	9.26	9.00	27.17	23.80
18795	1.50†	1.00	3.54	4.00	.55	....	10.38	8.00	22.22	17.60
18796	.....	....	4.81	5.00	.35	....	13.36	12.00	16.90	15.80
18524	.....	....	4.91	5.00	.82	....	9.17	8.00	13.32	12.20

† Contains Nitrate. * Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18465	Patapsco Guano Co., Baltimore, Md.	Alkaline Phosphate	Cecilton (L. W. Davis.)
18478	" " "	Alkaline Phosphate	Cecilton (W. T. Clark.)
18607	" " "	Baltimore Soluble Phosphate.	Cockeysville .....
18525	" " "	Blood, Bone and Potash...	Baltimore .....
18526	" " "	Coon Brand Guano.....	Baltimore .....
18608	" " "	Dissolved Raw Bone.....	Cockeysville .....
18527	" " "	Grain and Grass Producer	Baltimore .....
18749	" " "	Grange Mixture	Baltimore .....
18650	" " "	High Grade Bone and Potash.	Baltimore .....
18728	" " "	McKenney's Compound ...	Centreville .....
18739	" " "	McKenney's No. 1 D.....	Baltimore .....
18651	" " "	Phospho-Potash.....	Baltimore .....
18750	" " "	Pure Dissolved S. C. Bone	Baltimore .....
18528	" " "	Sea Gull Guano.....	Baltimore .....
18529	" " "	Soluble Bone and Potash..	Baltimore .....
18609	" " "	Special Wheat Compound..	Cockeysville .....
18751	" " "	Tobacco and Potato Fertilizer.	Baltimore .....
18712	Peerless Fertilizer Co., Chestertown, Md.	Imperial Compound	Chestertown.....
18713	" " "	Our Potato Fertilizer.....	Chestertown .....
18714	" " "	Peerless Fertilizer	Glencoe .....
18610	Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Insula Guano for All Crops	Germantown .....
18581	" " "	Levering's Ammoniated Bone.	Royal Oak (E. Woodall.)
18450	" " "	" " "	

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18465	....	....	3.01	3.00	.53	....	12.00	12.00	$13.92	$13.80
18478	....	....	3.02	3.00	1.08	....	11.75	12.00	13.82	13.80
18607	....	....	2.64	2.00	.70	....	10.89	11.00	12.58	11.90
18525	.63	.50	2.25	2.00	1.02	....	8.10	8.00	14.90	13.60
18526	1.16	1.00	3.05	3.00	1.12	....	9.34	9.00	19.35	17.80
18608	2.54	2.50	....	....	2.90	....	11.80	12.00	25.48	24.40
18527	1.11	1.00	4.13	4.00	1.40	....	8.28	8.00	19.07	17.60
18749	2.10	2.00	2.01	2.00	2.65	....	7.33	8.00	20 27	19 60
18650	....	....	4.13	5.00	1.57	....	12.89	11.00	16.04	14.90
18728	1.38	1.50	2.55	2.40	4.12	3.00	9.89	9.00	21.59	20.40
18739	2.03	2.25	2.77	2.50	4.65	3.00	8.61	7.7	23.08	22.00
18651	....	....	3.29	3.00	.90	1.00	6.11	6.00	8.97	8.60
18750	....	....	....	....	.92	....	14.13	14.00	12.90	12.60
18528	1.18	1.00	1.27	1.00	1.40	....	8.23	8.00	16.43	14.60
18529	....	....	2.22	2.00	1.12	....	10.15	10.00	11.58	11.00
18609	2.66	2.25	2.67	2.50	2.82	5.00	10.78	9.00	27.38	24.30
18751	2.15	2.00	4.32	4.00	2.17	....	8.06	8.00	23.46	21.60
18712	1.33	1.00	4.90	4.00	.08	....	10.47	8.00	22.81	17.60
18713	4.42†	4.00	6.88	6.00	.05	....	9.04	6.00	35.43	29.20
18714	2.02†	2.00	4.58	4.00	.08	....	9.98	7.00	24.67	20.40
18610	.58	.50	1.94	2.00	.52	....	5.22	7.00	10.73	12.40
18581	.87	1.00	4.33	3.00	.62	....	9.06	9.00	18.93	17.80
18450	.75	1.00	3.42	3.00	.55	....	9.43	9.00	17 96	17.80

† Contains Nitrate.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18679	Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Levering's Excelsior	Hampstead .....
18634	" " "	Levering's Harvest Queen	Baltimore .....
18611	" " "	Levering's Standard	Glencoe .....
18490	" " "	Levering's Standard	Gwynnbrook (Miss E.R.Phillips.)
18582	" " "	Peerless Phosphate	Germantown .....
18612	" " "	Piedmont Dissolved Animal Bone.	Glencoe .....
18531	" " "	Piedmont Economy	Baltimore .....
18530	" " "	Piedmont Farmers' Bone and Potash.	Baltimore .....
18583	" " "	Piedmont Farmers' Favorite.	Germantown .....
18433	" " "	Piedmont Farmers' Favorite.	Longwoods (E. J. Porter.)
18498	" " "	Piedmont Farmers' Favorite.	Greensboro (W. E. Orrell.)
18613	" " "	Piedmont H. G. Ammoniated Bone and Potash.	Glencoe .....
18614	" " "	Piedmont H. G. S. C. Bone	Glencoe .....
18584	" " "	Piedmont Perfection Guano	Washington Grove
18479	" " "	Piedmont Perfection Guano	Gaithersburg (T. T. Cavanaugh.)
18788	" " "	Piedmont Quarter Mixture	Breathedsville ..
18759	" " "	Piedmont Pure Raw Bone Mixture	Baltimore .....
18432	" " "	Royal Ammoniated	Longwoods (E. J. Porter.)
18635	" " "	Piedmont Special Potash Mixture.	Baltimore .....
18676	" " "	Piedmont Success	Mt. Airy .....
18466	" " "	Piedmont Success	Mt. Airy (C. A. Schneider.)
18448	" " "	Piedmont Wheat Compound.	Vienna (E. Hoerneche.)
18532	" " "	Piedmont Wheat Compound.	Baltimore. .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18675	.85	1.00	1.46	1.00	.70	....	8.45	8.00	$15.28	$14.60
18634	.75†	1.00	2.34	2.00	.50	....	9.06	8.00	16.41	15.60
18611	1.81	2.00	3.81	3.00	1.67	....	9.87	8.00	23.56	20.60
18490	1.76	2.00	3.28	3.00	.99	....	9.02	8.00	21.54	20.60
18582	.94	1.00	2.65	1.50	.47	2.00	8.01	8.00	16.21	15.90
18612	2.66	2.50	....	....	1.42	....	8.67	10.00	21.61	22.00
18531	.26	.25	2.03	2.00	.55	....	9.52	10.00	14.71	15.00
18530	....	....	2.18	2.00	.42	....	9.75	10.00	11.04	11.00
18583	1.08	1.00	3.76	4.00	.55	....	7.56	8.00	17.37	17.60
18433	.82	1.00	3.84	3.00	.82	....	9.49	9.00	18.84	17.80
18498	.96	1.00	4.01	4.00	.32	....	8.88	8.00	18.64	17.60
18613	2.70	3.00	3.92	3.00	2.10	....	8.79	8.00	26.11	24.60
18614	....	....	....	....	.25	....	14.25	14.00	12.88	12.60
18584	2.29	2.00	4.91	5.00	4.60	....	7.23	8.00	24.59	22.60
18479	2.24	2.00	4.96	5.00	1.57	....	8.95	8.00	25.29	22.60
18788	2.03	2.25	2.84	2.25	1.35	....	9.65	8.25	22.58	21.15
18759	1.23	1.25	2.23	2.00	1.47	....	8.95	8.00	18.48	16.60
18432	.72	1.00	5.07	4.00	.75	....	9.29	8.00	19.40	17.60
18635	....	....	5.59	5.00	.23	....	10.50	10.00	15.09	14.00
18676	.24	.25	6.69	5.00	.60	....	7.86	9.00	17.32	16.80
18456	.49	.25	6.39	5.00	.63	....	8.01	9.00	18.21	16.80
18448	....	....	5.01	5.00	.50	....	11.80	12.00	15.73	15.80
18532	....	....	4.24	5.00	.25	....	10.70	12.00	13.92	15.80

† Contains Nitrate.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18482	Piedmont-Mt. Airy Guano Co., Baltimore, Md.	12 & 3	Mt. Airy (J. Murray.)
18694	Pollock Fertilizer Co., Baltimore, Md.	Ammoniated Bone Phosphate.	Cardiff
18533	" " "	Crop Invigorator	Baltimore
18760	" " "	Dissolved Animal Bone	Baltimore
18534	" " "	Dissolved Bone and Potash.	Baltimore
18761	" " "	Dissolved S. C. Bone	Baltimore
18535	" " "	Ground Animal Bone	Baltimore
18536	" " "	Owl Brand Guano	Baltimore
18427	" " "	Owl Brand Guano	Church Hill (S. G. McCollister)
18752	" " "	Soft Ground Bone	Baltimore
18537	" " "	Special Tobacco and Potato Fertilizer.	Baltmiore
18695	" " "	Special Tobacco and Potato Fertilizer.	Bel Air
18538	" " "	Special Wheat Grower	Baltimore
18636	" " "	Star Alkaline Phosphate	Baltimore
18762	" " "	Wheat Grower	Baltimore
18590	Ramsburg Fertilizer Co., Frederick, Md.	Alkaline Phosphate	Barnesville
18797	" " "	Ammoniated Bone Phosphate.	Barnesville
18592	" " "	Dissolved Animal Bone	Beallsville
18593	" " "	Dissolved Bone Super-Phosphate.	Beallsvile
18496	" " "	Dissolved Bone Super-Phosphate.	Bartholows (J. A. Engle.
18662	" " "	Excelsior Half and Half	Frederick
18594	" " "	Excelsior Plant Food	Buck Lodge
18461	" " "	Formula No. 1	Gaithersburg (B. R. Codwise.)

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18482	....	....	2.26	3.00	.20	....	10.27	12.00	$11.54	$13.80
18694	1.81	2.00	2.27	2.00	1.32	....	8.21	8.00	19.89	19.60
18533	1.19	1.00	4.08	4.00	1.57	1.00	8.02	8.00	19.09	18.00
18760	2.30	2.50	....	....	2.56	....	12.02	12.00	24.64	24.40
18534	....	....	3.85	4.00	.72	1.00	10.87	10.00	13.77	13.20
18761	....	....	....	....	.77	1.00	14.58	14.00	13.27	12.80
18535	4.52	4.00	....	....	22.09*	22.00*	.....	....	26.81	25.20
18536	.72	.50	1.54	1.50	.75	1.00	7.62	7.00	13.86	12.30
18427	.53	.50	1.19	1.50	1.62	1.50	4.95	7.00	9.90	12.50
18752	3.02	3.00	....	....	16.55*	11.00*	....	....	18.99	15.60
18537	2.22	2.00	3.89	4.00	1.85	1.00	8.37	8.00	23.55	22.00
18695	2.06	2.00	4.40	4.00	1.60	1.00	8.63	8.00	23.64	22.00
18538	.94	1.00	2.18	2.00	1.30	1.00	7.82	8.00	15.84	16.00
18636	....	....	5.04	5.00	.80	1.00	12.16	12.00	16.14	16.00
18762	1.01	1.00	1.95	2.00	1.80	1.00	8.19	8.00	16.54	16.00
18590	....	....	1.90	2.00	2.80	...	8.80	10.00	10.38	11.00
18797	1.14	1.00	2.37	2.00	3.77	....	7.63	10.00	17.60	18.00
18592	2.18	2.00	....	....	3.22	3.00	11.17	10.00	23.41	21.20
18593	....	....	....	....	3.15	....	11.98	14.00	11.41	12.60
18496	....	....	....	....	1.05	....	15.18	14.00	13.87	12.60
18662	1.14	1.00	1.71	1.00	2.02	....	10.30	10.00	19.44	17.00
18594	1.67	2.00	2.01	2.00	1.95	....	9.48	9.00	20.85	20.80
18461	1.11	1.60	5.24	7.50	5.67	....	9.90	6.30	23.83	21.46

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18402	Ramsburg Fertilizer Co., Frederick, Md.	Formula No. 2.....	Gaithersburg (B. R. Codwise.
18663	" " "	Old Virginia Compound..	Monrovia .....
18497	" " "	Special Bone	Bartholows (J.A. Engle.)
18664	" " "	William's Wheat and Grass Fertilizer.	Monrovia .....
18456	" " "	William's Wheat and Grass Fertilizer.	Monrovia (B. J. Brandenburg.)
18542	Rasin-Monumental Co., Baltimore, Md.	Monumental Potato Manure,	Baltimore .....
18585	" " "	Rasin's Acid Phosphate...	Seneca.....
18705	" " "	Rasin's Best Wheat and Grass Producer. .	Greensboro .....
18798	" " "	Rasin's Bone and Potash Fertilizer.	Graceham .....
18769	" " "	Rasin's Dissolved Bone....	Hagerstown .....
18586	" " "	Rasin's Empire Guano....	Silver Spring ....
18587	" " "	Rasin's Fish, Bone and Potash.	Silver Spring ....
18770	" " "	Rasin's Half and Half Mixture.	Hagerstown .....
18540	" " "	Rasin's High Grade Bone and Potash.	Baltimore .....
18541	" " "	Rasin's I. X. L. Fertilizer..	Baltimore .....
18543	" " "	Rasin's National Crop Compound.	Baltimore.....
18588	" " "	Rasin's Pure Raw Bone..	
.....			
.....			
18652	" " "	Rasin's Special Bone and Potash.	Baltimore .....
18545	" " "	Rasin's Wheat, Corn and Oats Mixture.	Baltimore .....
18654	" " "	Rasin's Wheat, Potash Mixture.	Baltimore .....
18706	" " "	Rasin's X. X. X. Fertilizer	Greensboro .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18462	1.42	2.40	5.01	7.50	5.25	.....	10.01	5.60	$24.80	$25.82
18663	1.59	1.50	2.17	2.00	2.57	.....	8.70	9.00	20.00	18.80
18497	4.15	4.00	....	....	21.22*	21.00*	....	....	25.18	24.60
18664	1.30	1.00	2.02	2.00	2.47	.....	8.75	8.00	18.71	15.60
18456	1.01	1.00	1.86	2.00	1.17	.....	12.62	8.00	21.51	15.60
18542	2.06	2.00	7.02	7.00	1.52	1.00	6.82	6.00	24.05	22.60
18585	....	....	....	....	1.12	1.00	15.20	14.00	13.90	12.80
18705	1.54	1.50	3.18	3.00	2.37	1.00	8.80	8.00	20.85	19.00
18798	....	....	1.86	2.00	.98	1.00	10.78	10.00	11.78	11.20
18769	2.01	2.00	....	....	2.80	1.00	11.07	10.00	22.44	20.40
18586	2.27	2.00	2.05	2.00	2.67	....	8.12	8.00	21.94	19.60
18587	2.15	2.00	2.83	3.00	1.12	1.00	8.40	8.00	21.96	21.00
18770	....	....	2.49	3.00	.85	1.00	5.08	6.00	7.23	8.60
18540	....	....	5.22	5.00	1.00	1.00	12.01	12.00	16.23	16.00
18541	1.16	1.00	3.25	3.00	1.97	1.00	9.35	8.00	19.90	17.00
18543	1.28	1.00	3.52	4.00	2.10	1.00	7.46	8.00	18.43	18.00
18588	4.93	4.50	....	....	22.68*	21.50*	....	....	28.40	26.40
.....	....	....	....	....	....	....	....	....	.....	.....
.....	....	....	....	....	....	....	....	....	.....	.....
18652	....	....	4.89	5.00	1.97	1.00	10.14	10.00	14.41	14.20
18545	.67	.50	2.20	2.00	1.72	1.00	8.59	8.00	15.88	14.00
18654	....	....	4.67	5.00	1.47	1.00	9.10	8.00	13.15	12.40
18706	2.01	2.00	4.63	5.00	2.35	1.00	8.23	8.00	23.49	23.00

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18791	Rasin-Monumental Co., Baltimore, Md.	Sea Wall Special.....	Baltimore .....
18653	" " "	Special Formula for Corn and Tomatoes.	Baltimore .....
18589	" " "	William Penn Crop Grower.	Gaithersburg .....
18696	W. E. Robinson & Co., Bel-Air, Md.	Special Mixture	Bel Air .....
18685	Scott Fertilizer Co., Elk-Bel-Air, Md.	Soluble Bone and Potash, 12 x 3.	Childs .....
18686	" " "	Soluble Bone and Potash, 12 x 5.	Childs .....
18625	" " "	Sure Growth Super-Phosphate.	Cherry Hill .....
18687	" " "	Tip Top and Potash.....	Childs.....
18697	Smith, Rouse & Webster, Bel-Air, Md	Special Formula	Bel-Air.....
18698	Southern Fertilizer Co., York, Pa.	Ammoniated Dissolved Bone.	Forest Hill .....
18699	" " "	Dissolved Bone Phosphate	Forest Hill .....
18700	" " "	Special Potato Grower....	Forest Hill .....
18701	W. H. Street & Co., Fallston, Md.	Ammoniated Dissolved Bone.	Fallston .....
18702	" " "	High Grade Bone Phosphate.	Fallston .....
18677	H. S. Taveau & Co., Baltimore, Md.	Bone Compound.	Hampstead .....
18740	" " "	Bone Mixture	Baltimore .....
187_63	" " "	Dissolved S. C. Bone.....	Baltimore .....
186_78	" " "	Florida Phosphate	Hampstead .....
185_46	" " "	Pure Ground Bone Meal..	Baltimore .....
185_47	" " "	Special Wheat Mixture....	Baltimore .....
187_64	" " "	Special Wheat Mixture....	Baltimore .....
187_53	" " "	Wheat and Grass Compound.	Baltimore .....
185_48	Geo. E. Thawley, Centreville, Md.	Special Wheat Formula No. 1.	Baltimore .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18791	....	....	....	....	1.80	1.00	10.68	10.00	$ 9.97	$ 9.20
18653	....	....	3.01	3.00	1.10	1.00	6.63	6.00	9.20	8.60
18589	1.30	1.00	1.19	1.00	2.20	1.00	8.64	8.00	17.64	15.00
18696	2.06	2.00	3.82	2.00	2.35	....	8.84	8.00	23.61	19.60
18685	....	....	3.21	3.00	.95	....	12.66	12.00	14.79	13.80
18686	....	....	4.46	5.00	1.25	....	12.58	12.00	16.03	15.80
18625	2.17	2.00	3.89	3.00	2.57	2.00	8.01	8.00	23.21	21.40
18687	....	....	2.45	3.00	1.47	....	11.60	10.00	13.18	12.00
18697	2.05	2.00	2.20	2.00	1.77	....	8.32	8.00	21.09	19.60
18698	2.13	2.00	2.41	2.50	1.32	....	10.25	10.00	23.76	22.50
18699	....	....	....	....	.87	....	14.29	14.00	13.03	12.60
18700	1.57	1.50	4.32	4.00	1.40	....	8.13	8.00	20.92	19.60
18701	1.55	1.50	2.23	2.00	.82	....	9.09	9.00	19.67	18.80
18702	2.73	2.50	3.31	3.00	2.10	....	8.13	8.00	24.83	22.60
18677	.96	1.00	1.93	2.00	1.92	....	8.23	8.00	16.42	15.60
18740	1.11	1.00	2.69	2.50	1.72	....	9.37	10.00	19.06	18.50
18763	....	....	....	....	.75	.....	14.73	14.00	13.41	12.60
18678	....	....	....	....	.40	.....	14.44	14.00	13.08	12.60
18546	3.02	3.00	....	....	15.45*	38.00†	.....	.....	18.33	31.80
18547	....	....	2.13	2.00	1.07	.....	9.75	10.00	11.12	11.00
18764	....	....	3.58	3.00	.85	.....	11.74	12.00	14.32	13.80
18753	....	....	2.94	2.50	1.57	.....	11.07	11.00	13.21	12.40
18548	1.16	1.00	2.56	2.00	1.50	.....	10.02	9.00	19.82	16.80

* Total Phosphoric Acid. † Bone Phosphate.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18771	D. A. Thomas & Co., Hagerstown, Md.	Bone Mixture	Boonsboro .....
18772	" " "	Crown Jewel	Boonsboro .....
18773	" " "	Dissolved Bone Phosphate.	Boonsboro .....
18774	" " "	Farmers' Mixture	Boonsboro .....
18775	" " "	Golden Sheaf	Boonsboro .....
18776	" " "	Soluble Bone and Potash..	Boonsboro .....
18488	" " "	Special Mixture	Hagerstown (M. Wingert.)
18782	W. B. Tilghman Co., Salisbury, Md.	Bone Tankage Mixture....	Snow Hill .....
18783	" " "	Fish, Bone and Potash Mixture.	Snow Hill .....
18784	" " "	Mxture "B."	Salisbury .....
18785	" " "	Special Mixture	Snow Hill .....
18786	" " "	Standard Fish Mixture....	Salisbury .....
18787	E. W. Truitt & Co., Salisbury, Md.	Fish Mixture X. X.....	Salisbury .....
18715	Turner & Son, Betterton, Md.	Bone Phosphate for Wheat and Grass	Betterton .....
18549	Tuscarora Fertilizer Co., Baltimore, Md.	Acid Phosphate	Baltimore .....
18550	" " "	Alkaline	Baltimore .....
18777	" " "	Animal Bone	Federalsburg .....
18551	" " "	Big (4) Four.....	Baltimore .....
18552	" " "	Bone and Potash	Baltimore .....
18688	" " "	Special Mixture	Blue Ball .....
18741	" " "	Standard Phosphate	Baltimore .....
18655	" " "	Sure Growth	Baltimore .....
18553	" " "	York State Special.....	Baltimore .....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18771	2.03	2.00	2.69	2.00	.63	....	8.06	8.00	$20.95	$19.60
18772	1.09	1.00	3.32	3.00	.52	....	9.86	9.00	19.72	17.80
18773	....	....	....	....	.50	....	16.77	16.00	15.19	14.40
18774	1.01	1.00	2.17	2.00	.50	....	8.55	8.00	16.67	15.60
18775	.82	1.00	1.61	1.00	.60	....	8.39	8.00	15.20	14.60
18776	....	....	2.02	2.00	1.57	....	9 09	10.00	10.51	11.00
18488	2.05†	2.00	4.81	5.00	.70	....	10.06	10.00	25.36	25.00
18782	1.62	2.00	3.36	2.00	.62	....	9.53	8.00	21.53	19.60
18783	1.06	1.00	2.97	2.00	.33	....	10.39	10.00	19.81	18.00
18784	3.60	4.00	4.40	3.50	1.83	....	7.39	7.00	28.40	27.90
18785	.34	.33	2.27	2.00	.47	....	11.58	12.00	17.72	17.72
18786	1.67	2.00	3.55	2.00	1.37	....	8.61	8.00	21.07	19.60
18787	2.51	2.50	2.33	2.00	1.83	2.00	8.16	8.00	22.94	22.40
18715	2.17	1.75	4.64	2.50	2.85	....	8.83	10.00	25.06	21.50
18549	....	....	....	....	.13	....	14.17	14.00	12.78	12.60
18550	....	....	4.85	5.00	.40	....	9.91	10.00	13.85	14.00
18777	3.45	3.00	....	....	27.03*	24.00*	....	....	26.57	23.4%
18551	1.60	2.00	3.03	4.00	1.50	....	7.01	7.00	18.49	20.4%
18552	....	....	2.09	2.00	.30	....	10.04	10.00	11.19	11.0%
18688	1.67	2.00	5.33	5.00	1.05	....	7.88	8.00	21.89	22.6%
18741	1.30	2.00	2.23	2.00	1.12	1.00	8.16	8.00	17.67	20.0%
18655	.43	.50	3.13	3.00	.62	....	8.01	8.00	14.71	14.6%
18553	.85	1.00	4.01	4.00	.87	....	8.01	8.00	17.37	17.6%

† Contains Nitrate.

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18656	J. E. Tygert Co., Philadelphia, Pa.	Big Crop Grower	Baltimore
18721	" " "	Bone Phosphate	Childs
18626	" " "	Golden Harvest Phosphate.	Leslie
18627	" " "	Popular Potash	Leslie
18722	" " "	Pure Ground Bone	Childs
18657	" " "	Standard Bone Phosphate	Baltimore
18723	" " "	Victor Bone and Potash	Childs
18665	J. Tyson & Son, Frederick, Maryland.	Ammoniated Super-Phosphate.	Frederick
18596	" " "	Half and Half Super-Phosphate.	Dickerson
18597	" " "	Special Mixture	Dickerson
18729	E. S. Valliant & Sons, Church Hill, Md.	Ammoniated Potash Mixture.	Roberts
18730	" " "	Grain Grower	Roberts
18731	" " "	Ideal Fertilizer	Roberts
18598	Virginia-Carolina Chemical Co., Richmond, Va.	Giant Bone and Potash	Kensington
18679	" " "	National Ammoniated Guano.	Taneytown
18554	" " "	Peerless Bone and Potash	Baltimore
18658	" " "	Special Bone and Potash	Baltimore
18754	" " "	Special Compound for Wheat.	Baltimore
18555	" " "	Standard Bone and Potash	Baltimore
18556	" " "	Standadrd Corn and Grain Grower.	Baltimore
18717	" " "	Standard Crop Grower	Poolesville
18557	" " "	Union Super-Phosphate	Baltimore
18778	S. L. Webster & Son, Cambridge, Md.	Ammoniated Bone Fertilizer, No. 1.	Cambridge

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18656	....	....	4.64	5.00	.62	....	9.37	8.00	$13.19	$12.20
18721	2.42	2.25	3.18	2.50	1.17	2.00	8.68	9.00	23.75	23.10
18626	.67	.50	2.12	2.00	1.62	....	8.45	8.00	15.59	13.60
18627	.89	1.00	1.39	1.00	1.07	....	7.67	7.00	14.58	13.40
18722	4.28	4.00	....	...0	20.31*	22.00*	....	....	25.03	25.20
18657	2.08	2.00	2.02	2.00	1.62	1.00	8.10	8.00	20.71	20.00
18723	.97	1.00	2.09	4.00	1.07	1.00	8.40	8.00	16.48	18.00
18665	1.02	1.00	2.37	2.00	1.17	....	7.60	10.00	16.04	18.00
18596	.72	1.00	2.01	2.00	.93	....	8.55	10.00	15.54	18.00
18597	.58	1.00	1.76	1.00	.90	....	7.28	8.00	13.18	14.66
18729	.26	.25	2.68	2.00	.55	....	10.54	10.00	16.59	15.00
18730	.46	.50	3.12	2.00	1.27	1.00	8.63	8.00	15.83	14.00
18731	.96	1.00	2.42	2.00	1.20	....	10.31	9.00	19.11	16.88
18598	...	....	6.22	6.00	.28	1.00	12.54	12.00	17.57	17.00
18679	1.31	1.00	3.70	4.00	3.42	1.00	8.34	8.00	20.32	18.00
18554	. .	....	2.34	2.00	1.07	1.00	8 57	8.00	10.26	9.40
18658	....	....	4.76	5.00	1.87	1.00	10.93	10.00	14.97	14.90
18754	1.02	1.00	1.28	1.00	1.85	1.00	7.41	8.00	14.99	15.90
18555	....	....	2.04	2.00	1.20	1.00	10.20	10.00	11.46	11.40
18556	.60	.50	2.24	2.00	1.40	1.00	8.83	8.00	15.80	14.80
18717	2.03	2.00	1.92	2.00	2.21	....	8.98	8.00	21.70	19.70
18557	....	....	3.10	3.00	1.05	1.00	6.19	6.00	8.88	8.80
18778	2.51	2.50	3.37	2.50	1.47	....	9.72	10.00	25.66	24.60

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18779	S. L. Webster & Son, Cambridge, Md.	Ammoniated Bone Fertilizer No. 2.	Cambridge
18780	" " "	Bone and Potash	Cambridge
18755	" " "	Old Dorset Ammoniated Bone Fertilizer.	Baltimore
18680	Westminster Fertilizer Co., Westminster, Md.	Governor's Ammoniated & Concentrated Phosphate.	Westminster
18681	" " "	Leader	Westminster
18682	" " "	Super-A.	Westminster
18703	H. W. Whistler, Fountain Green, Md.	Crop Grower	Bel Air
18704	" " "	Pure Bone Meal	Forest Hill
18707	A. B. Whitaker, Adm., Reckord, Md.	Animal Bone Mixture	Reckord
18558	Rob't A. Wooldridge Co., Baltimore, Md.	Champion Giant Phosphate	Baltimore
18628	" " "	Chieftain Bone Stock Phosphate.	Singerly
18559	" " "	Farmers' Favorite Cereal Compound.	Baltimore
18756	" " "	Florida Acid Phosphate	Baltimore
18560	" " "	German Potash Mixture	Baltimore
18561	" " "	High Grade Dissolved Animal Bone.	Baltimore
18562	" " "	Ideal Grain and Grass Producer.	Baltimore
18563	" " "	Liberty Bell Potash Mixture.	Baltimore
18638	" " "	No. 1 Bone and Potash, 6 x 3.	Baltimore
18564	" " "	No. 2 Bone and Potash. 8 x 5.	Baltimore
18565	" " "	Old Sledge Phosphate	Baltimore
18566	" " "	Pure Raw Bone	Baltimore
18567	" " "	Triumph Pure Bone Phosphate.	Baltimore
18792	" " "	Tuckahoe Bone Meal	Baltimore

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18779	2.22	2.00	2.72	2.00	2.82	.....	8.18	8.00	$22.55	$19.60
18780	....	....	3.22	2.00	.97	.....	10.68	10.00	13.02	11.00
18755	.90	1.00	4.11	4.00	1.30	.....	7.80	8.00	17.59	17.60
18680	1.69	1.50	3.08	2.50	.55	.....	9.94	9.00	21.99	19.30
18681	1.30	1.00	2.21	1.50	.62	.....	8.78	8.00	18.20	15.10
18682	.87	.75	1.49	1.00	.42	.....	8.89	8.00	15.81	13.60
18703	1.45	1.50	2.42	2.00	1.75	.....	8.02	8.00	18.54	17.60
18704	2.22	2.00	...	....	17.45*	20.90*	....	...	17.13	18.54
18707	2.27	2.25	2.73	2.25	3.32	6.00	10.26	8.00	25.45	23.25
18558	1.08	1.00	2.09	2.00	1.35	1.50	9.06	9.00	17.82	17.40
18628	2.08	2.00	2.10	2.00	1.57	1.50	8.23	8.00	20.93	20.20
18559	.65	.50	2.31	2.00	1.25	1.00	7.20	7.00	14.05	12.80
18756	....	....	....	....	.72	1.00	14.02	14.00	12.76	12.80
18560	....	....	2.33	2.00	.77	1.00	10.20	10.00	11.66	11.20
18561	2.73	2.50	....	....	3.00	....	11.89	12.00	26.39	24.40
18562	....	....	4.11	4.00	.72	1.00	10.93	10.00	14.09	13.20
18563	....	....	3.23	3.00	.60	1.00	12.20	12.00	14.33	14.00
18638	....	....	3.59	3.00	.52	1.00	6.67	6.00	9.69	8.60
18564	....	....	5.29	5.00	.87	1.00	8.31	8.00	12.94	12.40
18565	....	....	5.45	5.00	.53	1.00	12.01	12.00	16.37	16.00
18566	4.49	4.00	....	....	21.36*	45.00†	....	....	26.29	39.00
18567	1.54	1.50	4.38	4.00	1.60	2.00	7.93	8 00	20.70	20.40
18792	3.31	3.00	....	....	9.45	1.00	7.26	14 00	25.73	29.20

* Total Phosphoric Acid. † "Bone Phosphate."

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.
18599	Wooldridge Fertilizer Co., Baltimore, Md.	Clover Leaf Crop Grower..	Germantown .....
18568	" " "	Faultless Ammoniated Bone Phosphate.	Baltimore .....
18765	" " "	Old Hickory Phosphate....	Baltimore .....
18569	" " "	Orchilla Guano	Baltimore .....
18766	" " "	Tiger Bone Stock Phosphate.	Baltimore.....
18781	J. M. Wright, Federalsburg, Md.	Ammoniated Bone Phosphate.	Federalsburg ....
18570	Wright & Lowe, Centreville, Maryland.	Enterprise Phosphate for Wheat and Grass.	Baltimore.....
18401	Wm. H. Bixler, Hagerstown, Md.	Blood and Bone.....	Hagerstown.....
18400	Wm. H. Bixler, Hagerstown, Md.	Bone Phosphate	Hagerstown.....

No.	NITROGEN Calculated as AMMONIA		POTASH, K_2O		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.		
18599	.73	.50	2.18	2.00	1.12	1.50	8.01	8.00	$15.16	$ 4.20
18568	2.05	2.00	2.38	2.00	1.47	2.00	8.73	8.00	21.65	20.40
18765	1.25	1.00	2.86	2.50	.85	1 50	8.47	8.00	18.36	16.70
18569	...	...	....	....	17.90	13.50	5.07	6.50	8.14	8.55
18766	1.18	1.25	4.56	4.50	.82	1.50	8.17	8.00	19.41	19.70
18781	.78	.50	3.59	4.00	1.02	....	9.72	9.00	18.78	16.80
18570	1.16	1.00	2.07	2.00	1.47	....	8.80	9.00	17.86	16.80
19401	2.19	2.00	5.02	4.00	3.35	....	8.73	8.00	25.60	21.60
19400	2.15	1.50	2.91	2.50	2.31	....	8.02	8.00	22.05	18.10

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